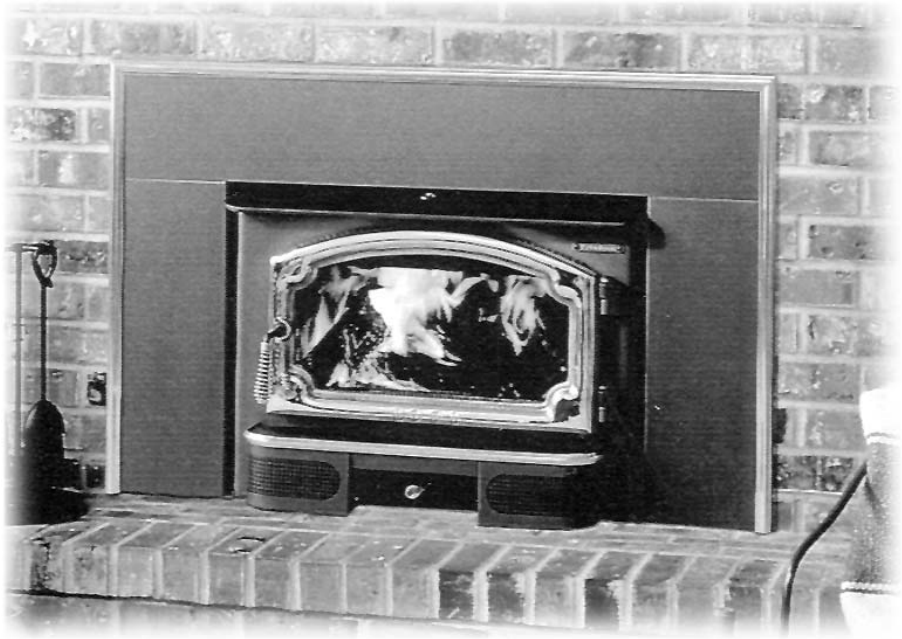
Freedom Fireplace Insert



Owner's Manual

- **Masonry Fireplace Insert**

Save these instructions for future reference

SAFETY NOTICE:

If this appliance is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

TRAVIS INDUSTRIES
HOUSE OF FIRE

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$10.00 100-01162
4050923

O-T L Listed
Tested to: U.L. 1482
Report # B0506PRT-001

Introduction

We welcome you as a new owner of a Lopi Freedom wood-burning fireplace insert. In purchasing a Lopi Freedom you have joined the growing ranks of concerned individuals whose selection of an energy system reflects both a concern for the environment and aesthetics. The Lopi Freedom is one of the finest appliances the world over. This manual will explain the installation, operation, and maintenance of this appliance. Please familiarize yourself with the Owner's Manual before operating your appliance and save the manual for future reference. Included are helpful hints and suggestions which will make the installation and operation of your new appliance an easier and more enjoyable experience. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your appliance.

Important Information

No other Lopi Freedom appliance has the same serial number as yours. The serial number is stamped onto the label on the back of the appliance.

This serial number will be needed in case you require service of any type.

Model: Lopi Freedom ND

Serial Number: _____

Purchase Date: _____

Purchased From: _____

_____

_____

Mail your Warranty Card Today, and Save Your Bill of Sale.

To receive full warranty coverage, you will need to show evidence of the date you purchased your appliance. Do not mail your Bill of Sale to us.

We suggest that you attach your Bill of Sale to this page so that you will have all the information you need in one place should the need for service or information occur.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We suggest that our woodburning hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Woodburning Specialists or who are certified in Canada by Wood Energy Technical Training (WETT).

Wood Energy Technical Training www.wettinc.ca

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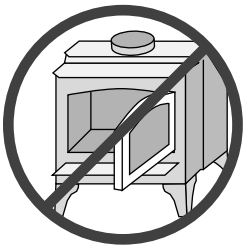


The viewing door must be closed and latched during operation.

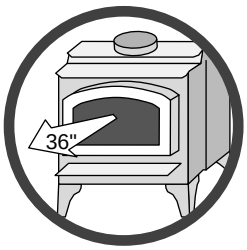
Never block free airflow through the air vents on this appliance.

Gasoline or other flammable liquids must never be used to start the fire or "Freshen Up" the fire. Do not store or use gasoline or other flammable liquids in the vicinity of this appliance.

This appliance is designed and approved for the burning of cord wood only. Do not attempt to burn any other type of fuel other than cord wood in this appliance, it will void all warranties and safety listings.

Ashes must be disposed in a metal container with a tight lid and placed on a non-combustible surface well away from the home or structure.

Do not touch the appliance while it is hot and educate all children of the danger of a high-temperature appliance. Young children should be supervised when they are in the same room as the appliance.



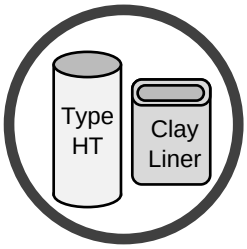
Keep furniture, drapes, curtains, wood, paper, and other combustibles a minimum of 36" away from the front of the appliance.

This appliance must be properly installed to prevent the possibility of a house fire. The instructions must be strictly adhered to. Do not use makeshift methods or compromise in the installation.

Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area. Notify your insurance company of this appliance as well.

Inspect the chimney connector and chimney at least twice monthly and clean if necessary. Creosote may build up and cause a house fire.

Do not connect this appliance to any chimney serving another appliance.

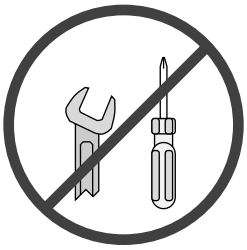


This appliance must be connected to a listed high temperature (UL 103 HT) residential type chimney or an approved masonry chimney with a standard clay tile, or stainless steel liner.

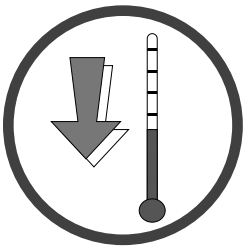
Do not install this heater in a sleeping room.

Never remove bricks or mortar from an existing fireplace. Masonry or steel, including the damper plate, may be removed from the smoke shelf and adjacent damper frame if necessary to accommodate a chimney liner, provided that their removal will not weaken the structure of the fireplace and chimney, and will not reduce protection for combustible materials to less than that required by the National Building Code.

When installed in a mobile home, this appliance must be bolted to the floor, have outside air, and not be installed in the bedroom (per H.U.D. requirements). Check with local building officials.



Never try to repair or replace any part of this appliance unless instructions are given in this manual. All other work must be done by a trained technician.

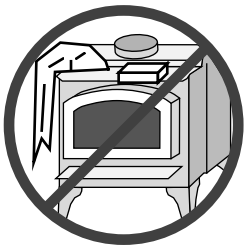


Allow the appliance to cool before carrying out any maintenance or cleaning.

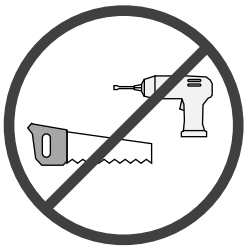
Maintain the door and glass seal and keep them in good condition.

Avoid placing wood against the glass when loading. Do not slam the door or strike the glass.

Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.

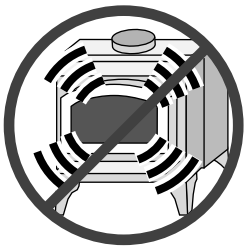


Do not place clothing or other flammable items on or near this appliance.

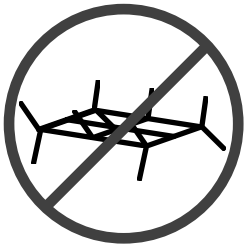


Do not make any changes or modifications to an existing masonry fireplace or chimney to install this appliance.

Do not make any changes to the appliance to increase combustion air.



Overfiring the appliance may cause a house fire. If a unit or chimney connector glows, you are overfiring.



Do not use a grate or other device to elevate the fire off of the firebox floor. Burn the fire directly on the bricks.

Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your appliance, and assumes no responsibility of any consequential damage(s).

Installation Options:

- Masonry Fireplace Insert

WARNING: Do not install this fireplace insert into a factory-built metal (Z.C.) fireplace.

Features:

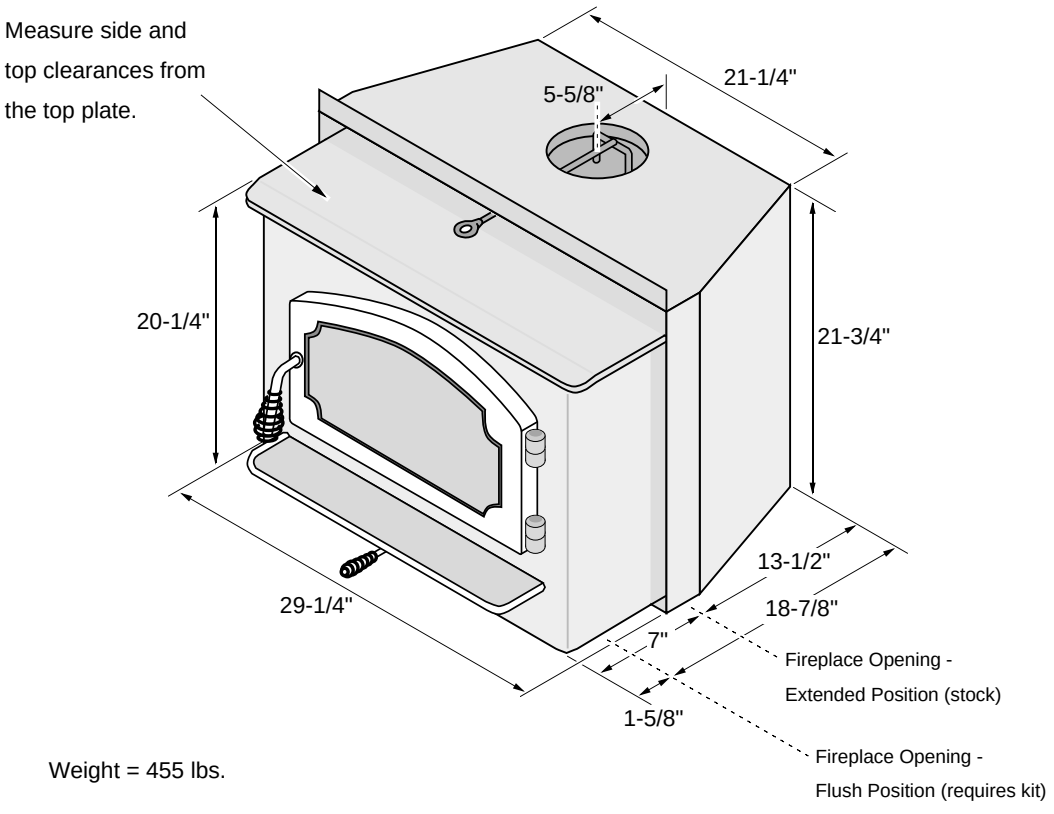
- EPA Phase II Approved
- 2.9 Cubic Foot (.082 m^3) Firebox Volume
- Single Operating Control
- Accepts Logs Up to 24" (610mm) Long
- Steel Plate Construction (5/16" & 3/16") (8mm & 5mm)
- Heavy Duty Refractory Firebrick
- Optional High-Tech Blower

Heating Specifications:

Approximate Maximum Heating Capacity *	1,200 SF to 2,250 SF(Extended)	110 m^2 to 210 m^2
	1,200 to 2,000 (with Flush Kit)	110 m^2 to 186 m^2
Maximum BTUs per Hour (Cord Wood Calculation)	73,300	
Overall Efficiency (Oregon Method)	71.1 %	
Maximum Burn Time	Up to 12 Hours	

* Heating capacity will vary depending on the home's floor plan, degree of insulation, and the outside temperature. It is also affected by the quality and moisture level of the fuel.

Dimensions:



Weight = 455 lbs.

Figure 1

Emissions:

3.2 Grams Per Hour (EPA Phase II Approved) – Tests conducted by E.E.S.P.C.

SAFETY NOTICE:

Please read this entire manual before you install and use your new room heater. Failure to follow instructions may result in property damage, bodily injury, or even death. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

Planning The Installation

We suggest that you have an authorized Travis Industries dealer install your fireplace insert. If you install the fireplace insert yourself, your authorized dealer should review your installation plans.

Check with local building officials for any permits required for installation of this fireplace insert and notify your insurance company before proceeding with installation.

Preparation for Installation

- Check for damage to the exterior of the fireplace insert (dents should be reported, scratches can be fixed by applying touch up paint).
- Check the interior of the firebox (replace cracked firebrick and make sure baffle is in place).

The fireplace insert can be lightened by removing the firebricks and baffle (pg 26) - replace before operation.

Additional Accessories Needed for Installation

a) Door Shell (Black 99300195 Brass 99300196 or Pewter 99300197 - see pg 30)
b) Surround Panels (see page 33)

Installation Considerations

Installation Type	Considerations
Insert with Positive Flue (Full Reline) (Page 13)	• Provides best draft • Easiest to clean
Insert with Direct Connect Flue (Page 14)	• Provides good draft • Requires fireplace block-off plate - see page 11

Fireplace Requirements

Figure 2 shows the minimum size requirements for the type of fireplace used.

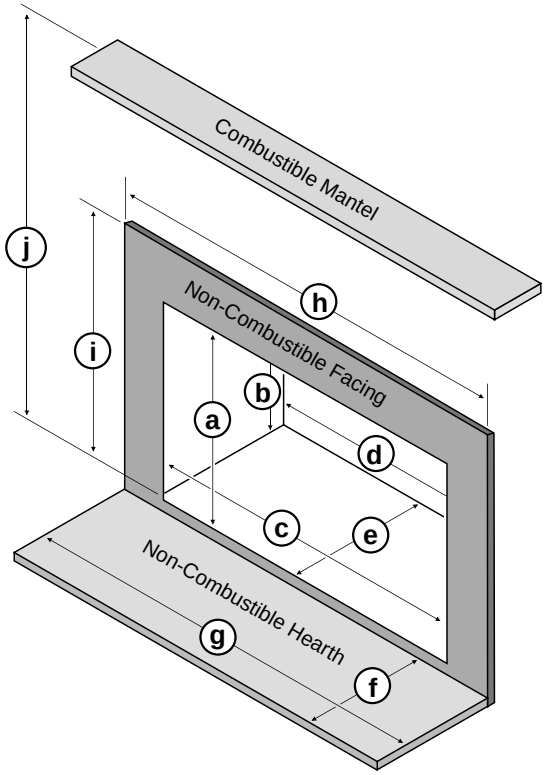


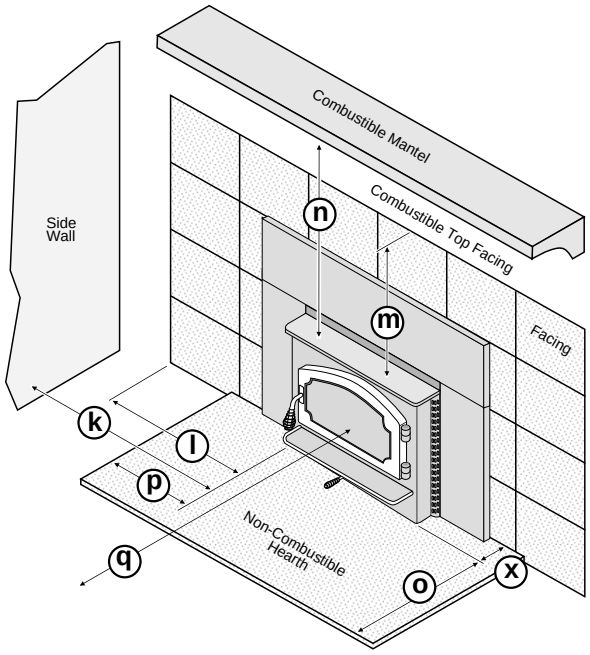
Figure 2

Minimum Fireplace Size	Extended (stock)	With Flush Kit
a) Height (front)	21-3/4” (553mm)	21-3/4” (553mm)
b) Height (rear)	21-3/4” (553mm)	21-3/4” (553mm)
c) Width (front)	29-1/4” (743mm)	29-1/4” (743mm)
d) Width (rear)	21-1/4” (540mm)	21-1/4” (540mm)
e) Depth	13-1/2” (343mm)	18-7/8” (480mm)
f) Hearth Depth	23” (585mm)	17-5/8” (449mm)
g) Hearth Width	45-1/4” (1150mm)	45-1/4” (1150mm)
h) Facing Width	56-1/4” (1429mm)	56-1/4” (1429mm)
i) Facing Height	50-1/4” (1277mm)	40-1/4” (1023mm)
With Mantel Shield	37-1/4” (947mm)	N/A
j) Mantel Height	52-1/4” (1328mm)	40-1/4” (1023mm)
With Mantel Shield	39-1/4” (997mm)	N/A

* This is the distance the insert protrudes from the fireplace opening plus the required 16” (407mm) of hearth extension.

Insert Placement Requirements

- The insert must be placed so that no combustibles are within, or can swing within (e.g. drapes, doors), 36" (915mm) of the front of the insert
- Insert and hearth must be installed on a level, secure floor.
- The included metal tag must be attached to the insert using screws or nails, to a readily visible location if the insert is to be removed.
- The minimum clearances, facing, and hearth requirements in Figure 3 must be met.



Minimum Clearances	Extended (stock)	With Flush Kit
k) Sidewall to Insert	15” (381mm)	15”” (381mm)
l) Side Facing	13-1/2” (343mm)	13-1/2” (343mm)
m) Top Facing With Mantel Shield	30” (762mm) 17” (432mm)	20” (508mm) N/A
n) Mantel to Insert with mantel shield	32” (818mm) 19” (483mm)	20” (508mm) N/A
o) Hearth (Front)	16" 407mm (US) - - - - - - - - - - - - 18” 458mm (Canada)	16" 407mm (US) - - - - - - - - - - 18” 458mm (Canada)
p) Hearth (Side)	8” (203mm)	8” (203mm)
q) Front of Insert	36” (915mm)	36” (915mm)
x) Extension onto Hearth	7” (178mm)	1-5/8” (43mm)

Figure 3

Hearth Requirements

- Must extend 16" (407mm) in front of the insert and 8" (203mm) on both sides
- Must be non-combustible and at least .018" (.457mm) thick (26 gauge)

Masonry Fireplace Requirements

- Chimney must have a clay tile liner or a stainless steel liner (positive connection)
- Entire fireplace, including chimney, must be clean and undamaged. Any damage must be repaired prior to installation of the insert.
- Chimney height: 15' (4.572 M) minimum; 33' (10.059 M) maximum.
- Entire fireplace, including chimney, must meet local building requirements
- This fireplace insert must be installed with a continuous chimney liner of 6” in diameter extending from the fireplace insert to the top of the chimney. The chimney liner must conform to the Class 3 requirements of CAN/ULC-S635, Standard for Lining Systems for Existing Masonry or Factory-Built Chimneys and Vents, or CAN/ULC-S640, Standard for Lining Systems for New Masonry Chimneys.

Drafting Performance

This appliance relies upon natural draft to operate. External forces, such as wind, barometric pressure, topography, or factors of the home (negative pressure from exhaust fans, chimneys, air infiltration, etc.), may adversely affect draft. Travis Industries cannot be responsible for external forces leading to less than optimal performance.

Insert Rollers

Two rollers are built into the back edge of the insert. This allows the insert to be rolled into position by lifting the front of the insert and pushing it into position (see Figure 4).

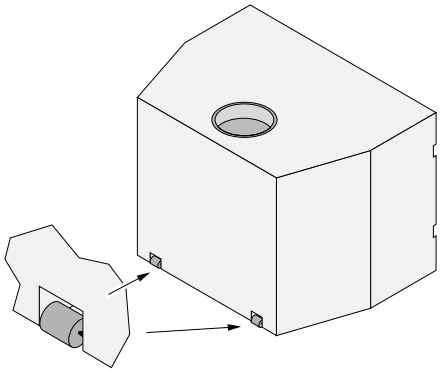


Figure 4

Leveling Bolt Installation

Two leveling bolts are pre-installed on the insert to allow for proper leveling within the fireplace. To access the bolts, remove the back corner firebricks and cover plates (see Figure 5 “a” and “b”). The bolts are pre-threaded to a weld-nut on the base of the insert. Use a 3/4” socket wrench to screw the bolts down (clockwise) until the insert is level (see “c”).

MASONRY NOTE: You may wish to place a metal plate below the bolt if the masonry is weak.

SEALING THE COVER PLATE: We recommend sealing the cover plate with furnace cement (place on underside of cover plate).

BOLT LENGTH: The included bolts allow approximately 1” (26mm) of rise. If additional rise is required, use a longer 1/2-13 thread bolt. Make sure the additional bolt length does not interfere with the cover plate.

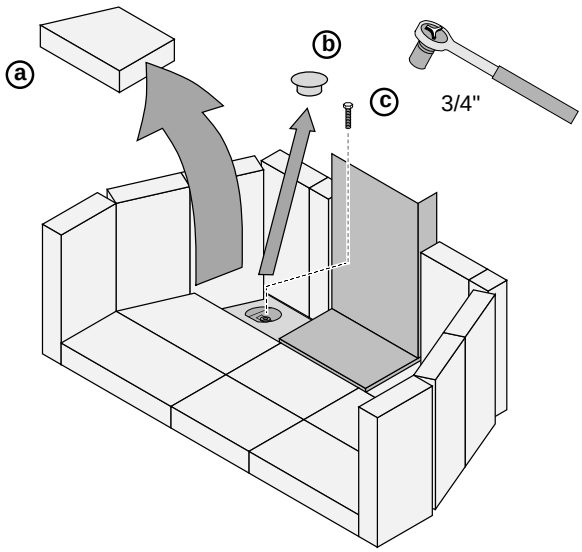
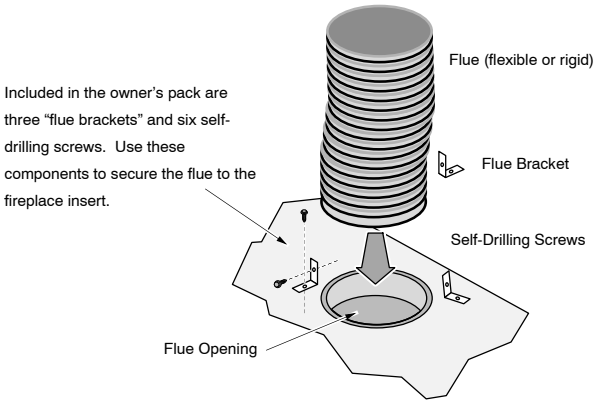


Figure 5

Flue Installation


Included in the owner's pack are three "flue brackets" and six self-drilling screws. Use these components to secure the flue to the fireplace insert.
Flue (flexible or rigid)
Flue Bracket
Self-Drilling Screws
Flue Opening

RLH Chim-Flex Starter Sections

RLH manufactures starter sections in straight or angled configurations to suit your application. They are secured from inside the firebox, making installation much easier. Contact RLH for additional details:

www.chim-flex.com

Block-Off Plate Installation

Whenever this appliance is installed with a direct connection a block-off plate, or other non-combustible seal-off device (e.g. damper adapter), will need to be installed. This device is used to seal the chimney, insuring no smoke enters the home and providing the chimney system with a seal to promote draft. The directions below detail the steps for construction and installation of a block-off plate.

1 Determine a location for the block-off plate at the top of the firebox below the damper area (make it high enough to allow installation of the connection pipe). The location should be level and in an area where it can be mounted easily. Measure the width at the rear ("A") and front ("B") of the firebox at the height where the block-off plate will be installed (see Figure 6). Then measure the depth of the location where the block-off plate will be installed ("C").

2 Make a cardboard template of the measurements, but add a 2" (51mm) flange to each side. This flange will be used to mount the block-off plate to the inside of the firebox. Bend the flanges downwards on the template and place it inside the fireplace. If the template fits correctly in its planned location, go to the next step. If it does not, make a new template with the appropriate corrections until it fits correctly.

3 With the template in place, mark the location of the flue (see “Dimensions” on page 6). This location approximates the center of the flue when the insert is in place (a slight offset may occur based upon insert and block-off plate placement). Remove the template and cut a 6 1/4" (159mm) diameter hole centered on this mark.

4 Make the block-off plate of 24 gauge or thicker steel to match the template. Drill two holes in each flange for mounting the plate.

5 Mount the block-off plate using masonry screws.

6 Insulate the block-off plate using high-temperature fiberglass insulation (Kaowool® or equivalent) and furnace cement (allow the cement to dry for at least 24 hours before burning).

7 After placing the appliance and installing the pipe through the block-off plate, use high-temperature fiberglass insulation and furnace cement to seal any cracks between the pipe and block-off plate.

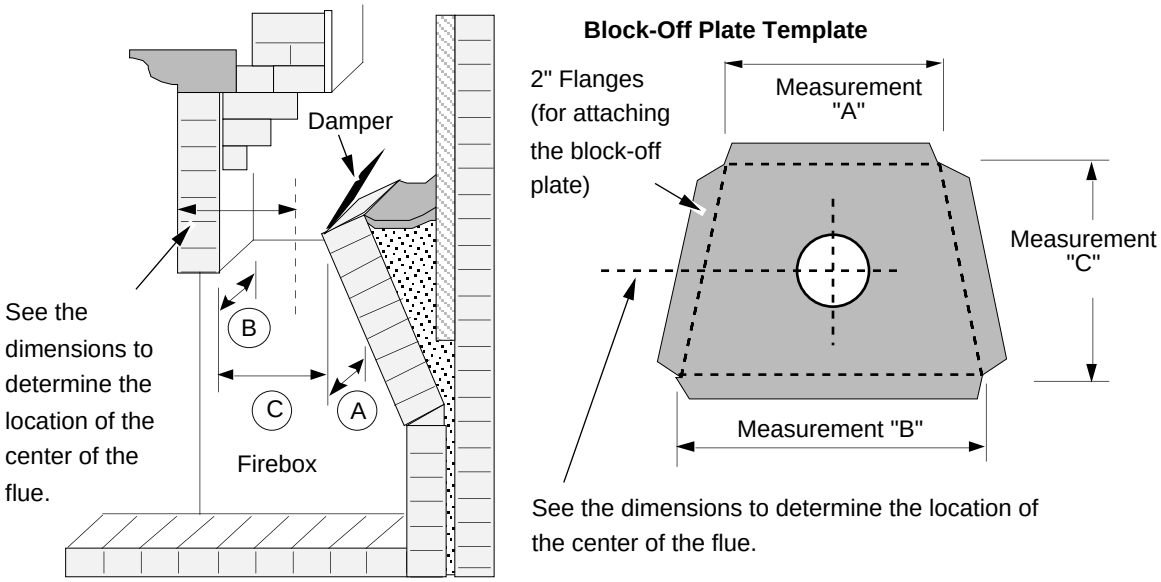


Figure 6

Insert with Positive Connection

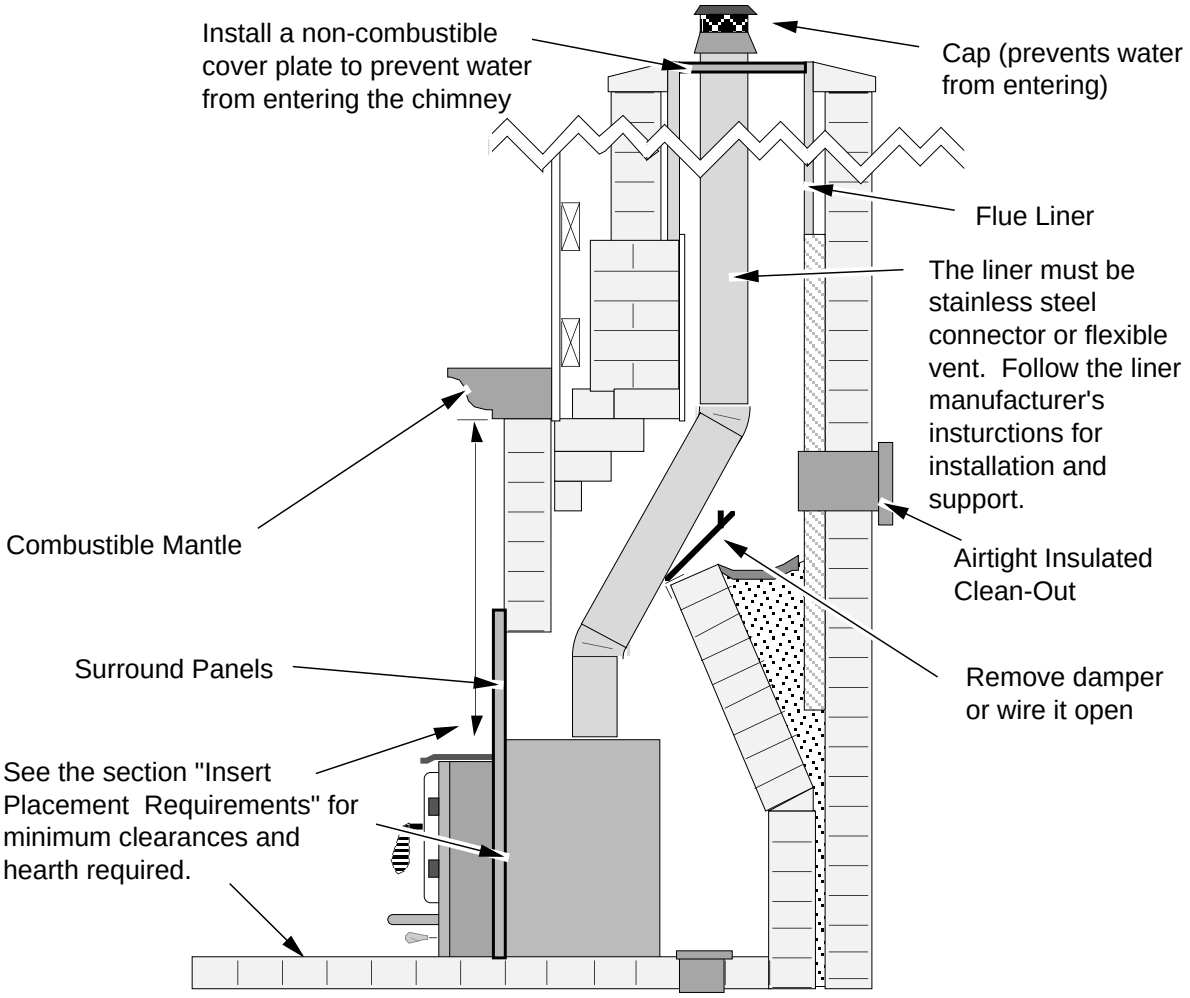

Install a non-combustible cover plate to prevent water from entering the chimney
Cap (prevents water from entering)
Flue Liner
The liner must be stainless steel connector or flexible vent. Follow the liner manufacturer's insturctions for installation and support.
Combustible Mantle
Airtight Insulated Clean-Out
Surround Panels
Remove damper or wire it open
See the section "Insert Placement Requirements" for minimum clearances and hearth required.

Figure 7

NOTE:

Most factory-built chimney manufacturers make stainless steel chimney liners, either flexible or rigid. This provides a wide variety of installation options. Make sure to follow the manufacturer's instructions for installation and support.

Insert with Direct Connection (Masonry Fireplace)

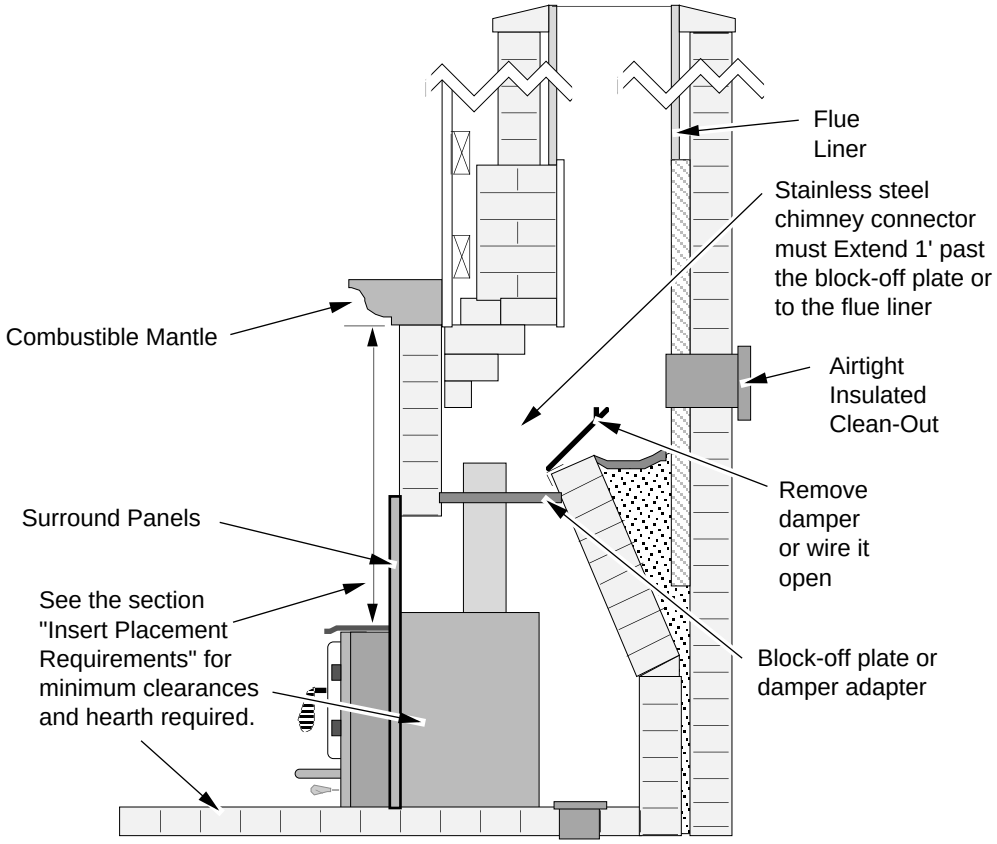


Figure 8

NOTE:

Direct connections require installation of an airtight block-off plate or damper adapter (see "Block-off Plate Installation" on page 11).

Safety Notice:

If this appliance is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

Read and follow all of the warnings on pages 4 and 5 of this manual.

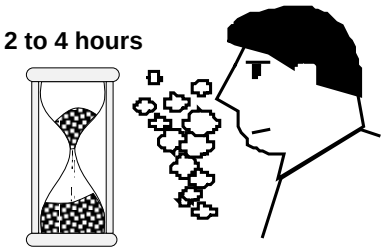
Before Your First Fire

Verify the Installation

Before starting the stove, verify that it is properly installed and all of the requirements in this manual have been followed.

Keep all flammable materials 36" (915mm) away from the front of the stove (drapes, furniture, clothing, etc.).

Curing the Paint



This heater uses a heat-activated paint that will emit some fumes while starting the first fire. Open doors and windows to the room to vent these fumes. This typically lasts two to four hours. You may also notice oil burning off of the interior of the heater. This rust-stopping agent will soon dissipate.

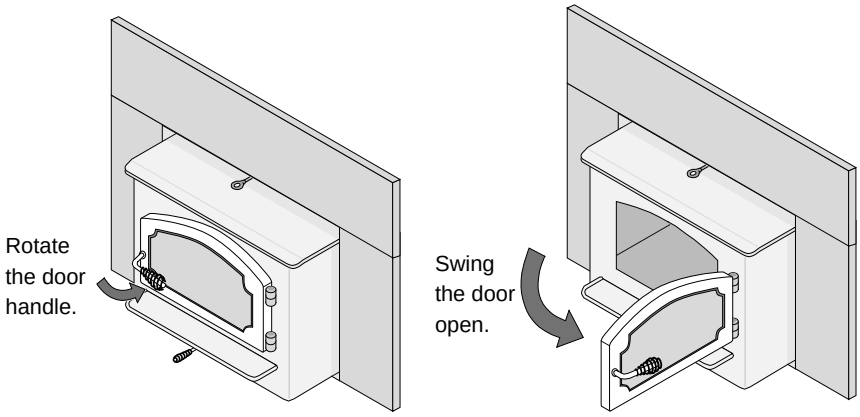
Door Gasket - The door gasket might adhere to the paint on the front of the heater. Leave the door slightly ajar for the first fire and be careful when opening the door after the first fire.

Over-Firing the Stove

This stove was designed to operate at a high temperature. But due to differences in vent configuration, fuel, and draft, this appliance can be operated at an excessive temperature. If the stove top or other area starts to glow red, you are over-firing the stove. Shut the air control down to low and allow the stove to cool before proceeding.

Over-firing may lead to damage of plated surfaces. If you are uncertain of over-firing conditions, we suggest placing a stove thermometer (e.g. Rutland® Model 710) directly over the door on the stove top - temperatures exceeding 800° (426 C) are generally considered over-firing and will void the warranty.

Opening the Door



The door becomes hot during use. Use a glove to open the door if the handle is hot.

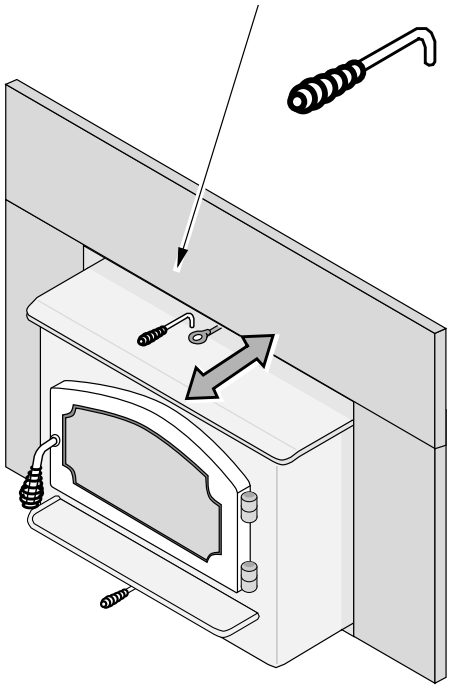
To prevent smoke from entering the room, open the bypass before opening the door (see following page for directions). You can also open the door a small amount and let air enter the firebox.

Bypass Operation

The bypass controls the flow of smoke inside the heater. When pulled out, smoke goes directly up the flue, creating more draft. When pushed in, the smoke goes around the baffle, utilizing the secondary combustion and making the heater more efficient.

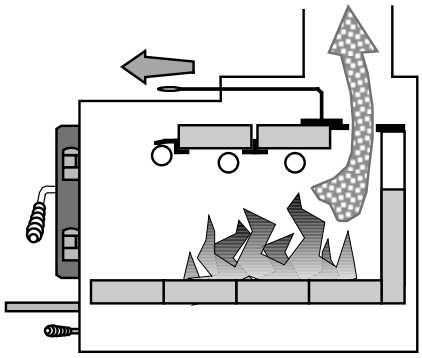
- When starting or re-loading, pull the bypass out.
- During normal operation, push the bypass in.

Use the included pull tool to operate the bypass rod



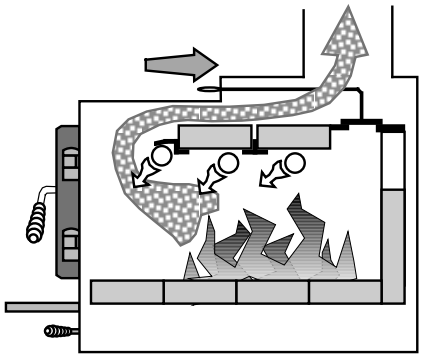
Bypass Pulled Out

Used for starting and re-loading



Bypass Pushed In

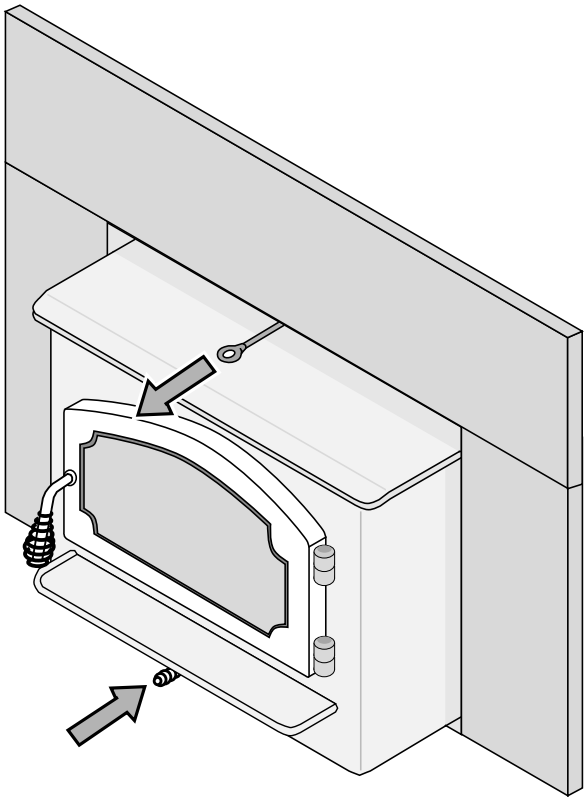
Used for normal operation



Starting a Fire

Since the dawn of time man has debated the best way to start a fire. Some use the boy-scout "tee-pee", some prefer the "tic-tac-toe" stack. Either way, review the hints and warnings below to ensure proper fire starting.

- Make sure the air control is pushed in and the by-pass pulled out. If additional air is needed, open the doors 1/4" (7mm) during the first five minutes of start-up.

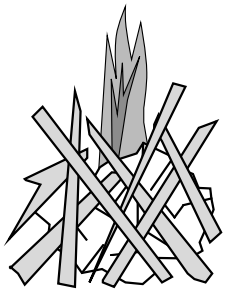


Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire in this stove. Keep all such liquids well away from the stove while it is in use.

If using a firestarter, use only products specifically designed for stoves - follow the manufacturer's instructions carefully.

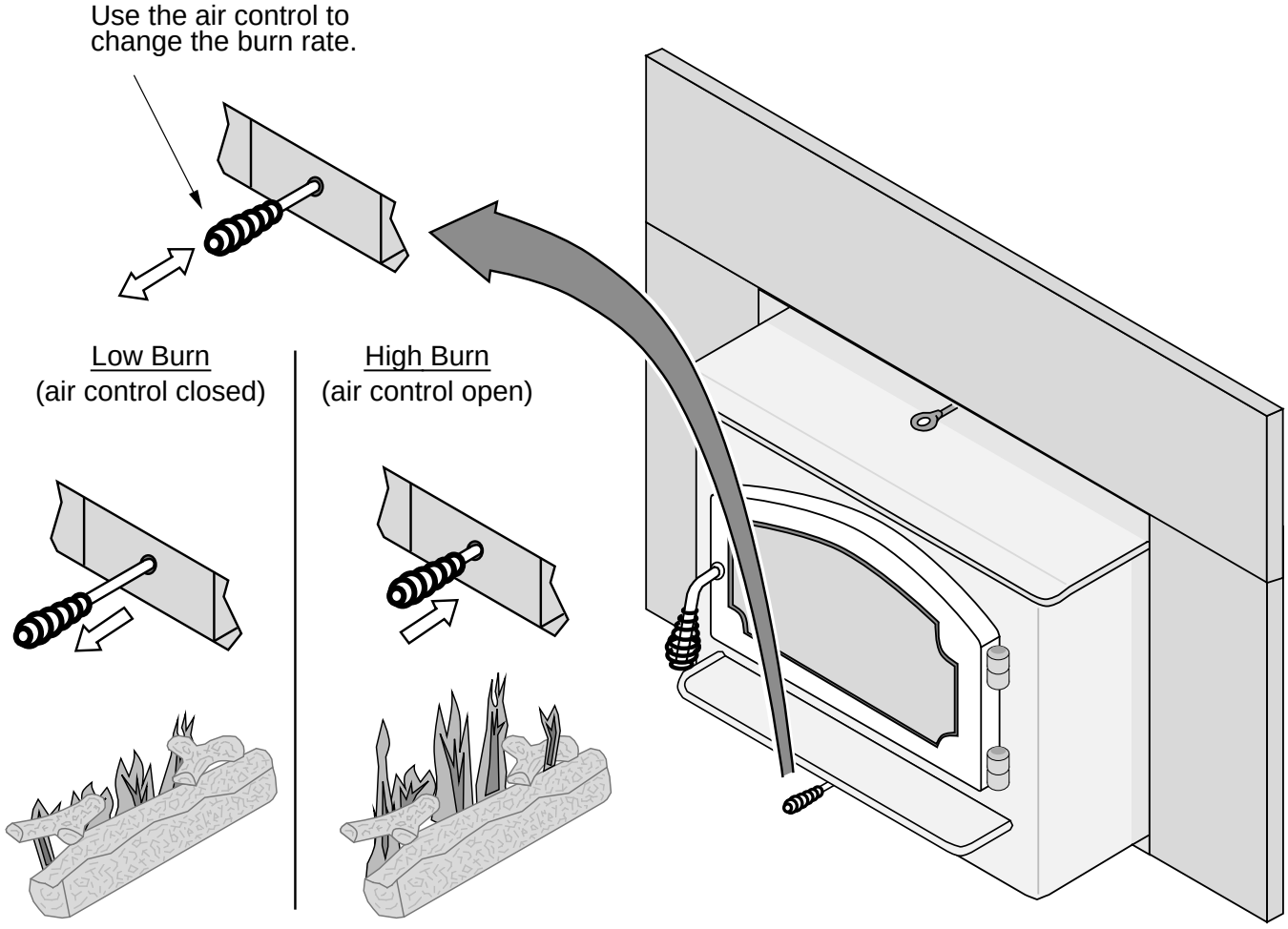
If the smoke does not pass up the chimney, ball up one sheet of newspaper, place it in the center of the firebox and light it. This should start the chimney drafting (this eliminates "cold air blockage").

Use plenty of kindling to ensure the stove reaches a proper temperature. Once the kindling is burning rapidly, place a few larger pieces of wood onto the fire.



Adjusting the Burn Rate

Use the air control slider to control the burn rate of the stove. See the illustration below for details.



Approximate Air Control Settings:

Overnight Burn	Fully out to 9/32" open
Medium Burn	9/32" to 5/16" open
Medium High Burn	5/16" to 7/16" open
High Burn	7/16" open to fully pushed in

The air control becomes hot during operation - use gloves or a tool to prevent burns.

The air control may take several minutes to influence the burn rate. When making adjustments, you may wish to let the stove burn for 10 minutes to gauge performance.

Ash Removal

Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.

Optional Blower Operation

The blower will turn on once the stove is up to temperature. This is typically 15 to 30 minutes after starting the fire. Follow the directions below to alter the blower speed.

OFF

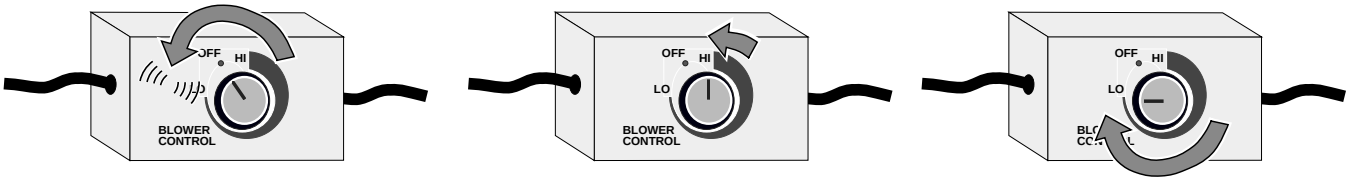
Turn the dial all the way counter-clockwise until it clicks off.

HIGH

The high position is all the way counter-clockwise, **without** clicking off.

LOW

Turn the dial all the way clockwise.



The blower may be used to affect heat output (i.e.: to reduce heat output, turn the blower down).

Route the power cord in a location where it will not come in contact with the appliance or become hot.

Re-Loading the Stove

Follow the directions below to minimize smoke spillage while re-loading the stove.

1 Open the air control all the way (push it in). Open the bypass (pull it out).

2 Open the door slightly. Let the airflow inside the firebox to stabilize before opening the doors fully.

3 Load wood onto the fire.

Overnight Burn

This stove is large enough to accommodate burn times up to eight hours. Follow the steps below to achieve an overnight burn.

1 Move the air control to high burn and let the stove become hot (burn for approximately 15 minutes).

2 Load as much wood as possible. Use large pieces if possible.

3 Let the stove burn on high for 15 minutes to keep the stove hot, then turn the air control to low.

4 In the morning the stove should still be hot, with embers in the coal bed. Stir the coals and load small pieces of wood to re-ignite the fire, if desired.

Differences if chimney height and draft may lower overall burn times.

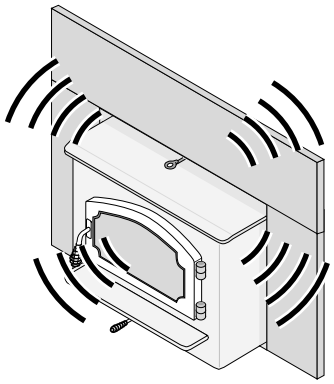
Normal Operating Sounds

Creaks and Clicks:

The 3/16" and 5/16" steel may creak or click when the stove heats up and cools down - this is normal.

Blower Sounds:

The blower will make a slight "humm" as it pushes air through the stove.



Hints for Burning

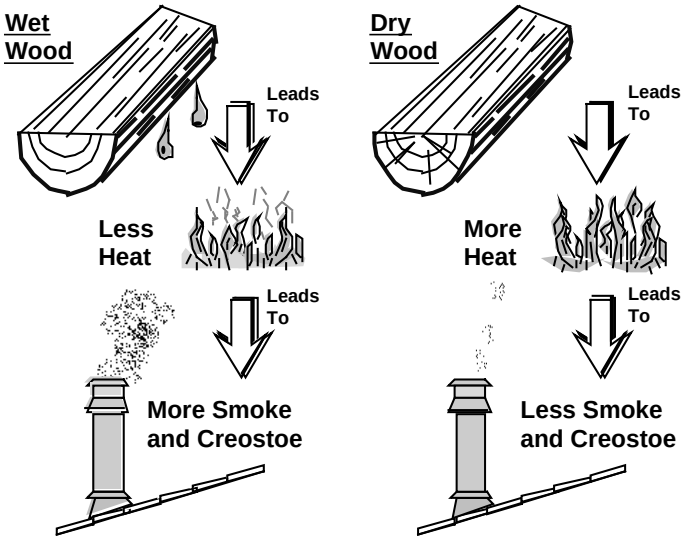
- Get the appliance hot before adjusting to low burn
- Use smaller pieces of wood during start-up and high burns to increase temperature
- Use larger pieces of wood for overnight or sustained burns
- Stack the wood tightly together to establish a longer burn
- Leave a bed of ashes (1/2" – 13mm -- deep) to allow for longer burns
- Be considerate of neighbors & the environment: burn dry wood only
- Burn small, intense fires instead of large, slow burning fires when possible
- Learn your appliance's operating characteristics to obtain optimum performance

Selecting Wood

- Dry Wood is Key
- Dry wood burns hot, emits less smoke and creates less creosote.

Testing Wood Moisture

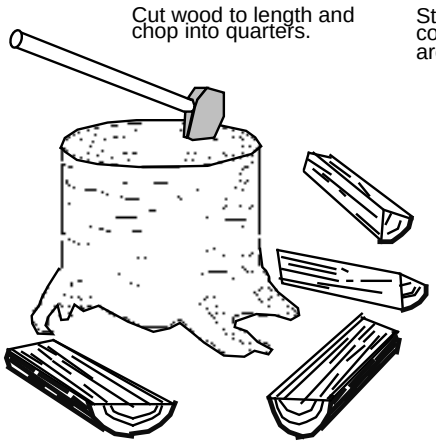
- Split wood stored in a dry area will be fully dry within a year. This insures dry wood. If purchasing wood for immediate use, test the wood with a moisture meter. Some experienced wood burners can measure wood moisture by knocking pieces together and listening for a clear "knock" and not a "thud".

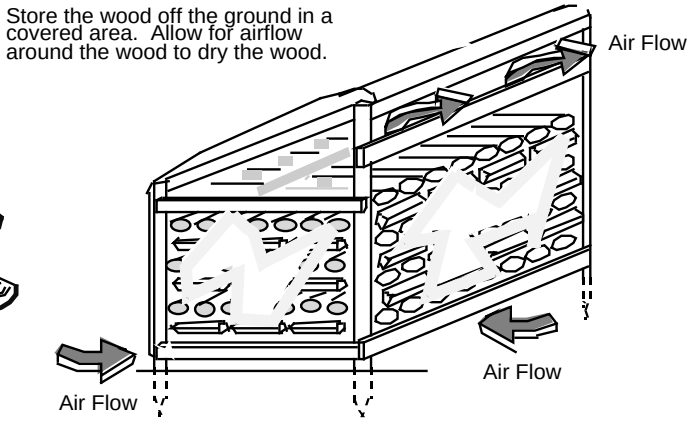


Why Dry Wood is Key

Wet wood, when burned, must release water stored within the wood. This cools the fire, creates creosote, and hampers a complete burn. Ask any experienced wood burner and he or she will agree: dry wood is crucial to good performance.

Wood Cutting and Storage





Troubleshooting

Problem	Possible Cause
Smoke Enters Room During Start-Up	• Open the bypass (pg. 16). • Open the air control (pg. 18). • Cold Air Blockage - burn a piece of newspaper to establish a draft. • If the flame is not getting enough air, a small crack in the door is all that is needed.
Kindling Does Not Start - Fire Smolders	• Open the bypass (pg. 16). • Open the air control (pg. 18). • Not enough starter paper - use additional newspaper if necessary. • If the flame is not getting enough air, a small crack in the door is all that is needed.
Smoke Enters Room While Re-Loading	• Open the bypass before opening the door (pg. 16). • Open the air control before opening the door (pg. 18). • Let the air stabilize before fully opening the door. Then open the door approximately 1 inch. Let air go into the firebox for a few seconds. Once the smoke appears to be flowing up the chimney consistently, open the door. • Insufficient Draft - Chimney height and outside conditions can negatively affect draft. In these cases a small amount of smoke may enter the home. Adding more pipe or a draft-inducing cap may help.
Stove Does Not Burn Hot Enough	• Wood is Wet - see the section "Selecting Wood" on page 20 for details on wood. • Make sure the air control is all the way open. Slide the control back and forth to insure the control is not stuck. • Insufficient Draft - Chimney height and outside conditions can negatively affect draft. In these cases the fire may burn slowly. Adding more pipe or a draft-inducing cap may help.
Blower Does Not Run	• Stove is Not Up to Temperature - This is normal. The blower will come on when the stove is hot - usually 15 to 30 minutes. • Electricity is Cut to the Blower - Check the household breaker or fuse to make sure it is operable.
Stove Does Not Burn Long Enough	• Depending upon wood, draft, and other factors, the burn time may be shorter then stated. Make sure the doors are sealing and not allowing air into the firebox - See the section "Door and Glass Inspection" on page 23 for details. • Check the ash bed for coals. Often, coals are still glowing under a slight bed of flyash. By raking these into a pile you can re-start your stove quickly.

Failure to properly maintain and inspect your appliance may reduce the performance and life of the appliance, void your warranty, and create a fire hazard.

Daily Maintenance (while stove is in use)

Remove Ash (if necessary)

- Ash removal is **not** required once it builds up. 1/2" (13mm) to 1" of ash may be desirable because it slows the burn rate. Generally, remove ash once it has built up over 1" (26mm). Follow the directions below to remove ash.

1 Let the stove cool completely (at least two hours after the last coal has extinguished).

2 Place a cloth or cardboard protector over the hearth to catch ash and protect against scratching.

3 Open the doors and scoop the ash into a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, away from all combustible materials, pending final disposal.

Improperly disposed ashes lead to fires. Hot ashes placed in cardboard boxes, dumped in back yards, or stored in garages, are recipes for disaster.

Wood-burning stoves are inherently dirty. During cleaning have a vacuum ready to catch spilled ash (make sure ash is entirely extinguished).

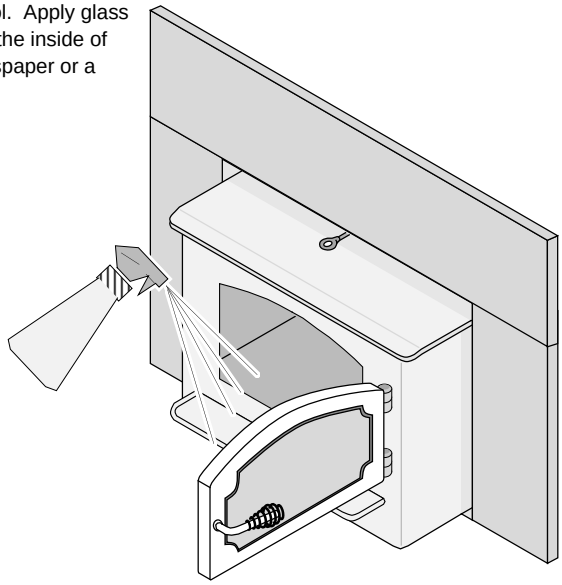
There are vacuum cleaners specifically made to remove ash (even if the ash is warm). Contact your dealer for details.

Clean the Glass (if necessary)

This appliance has an airwash to keep the glass clean. However, burning un-seasoned wood or burning on lower burn rates leads to dirtier glass (especially on the sides). Clean the glass by following the directions below.

Allow the stove to fully cool. Apply glass cleaner or soapy water to the inside of the glass. Wipe with newspaper or a paper towel.

For Stubborn Creosote:
Dip newspaper or a paper towel in cool ashes and wipe it on the glass. The ash acts as a light abrasive.



The glass will develop a very slight haze over time. This is normal and will not affect viewing of the fire.

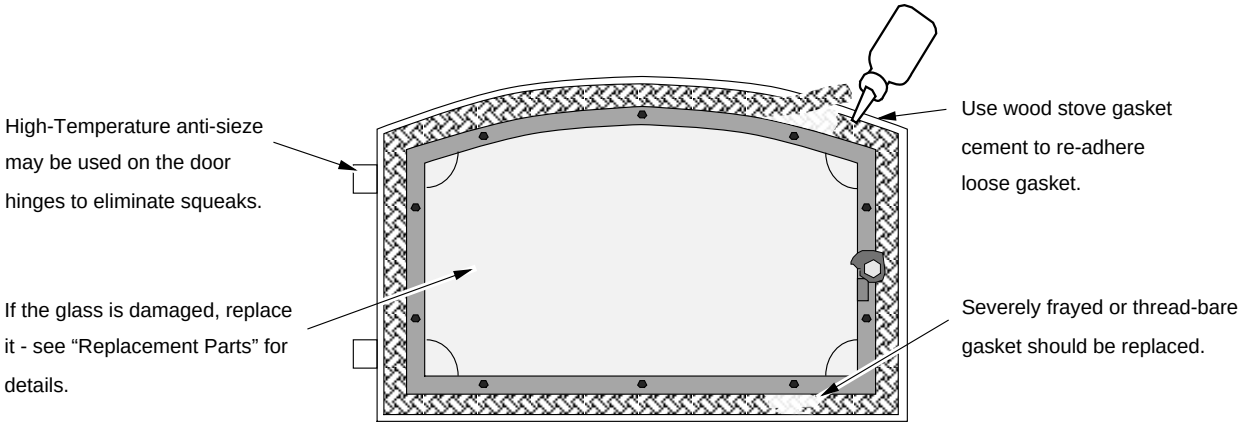
Monthly Maintenance (while appliance is in use)

Make sure the appliance has fully cooled prior to conducting service.

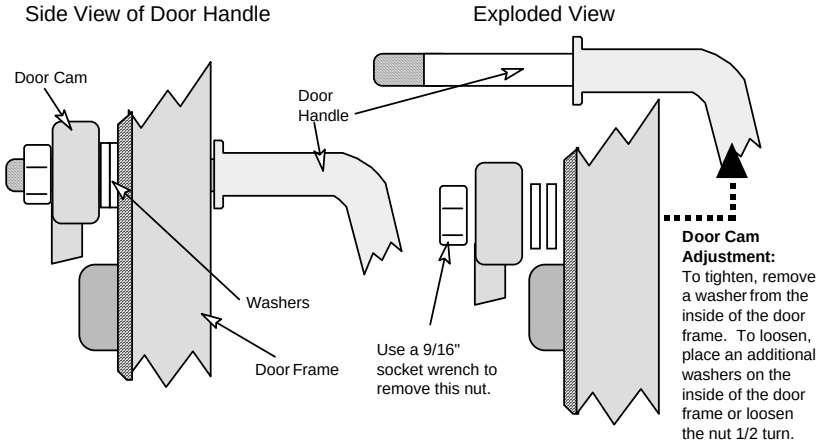
Door and Glass Inspection

The door must form an air-tight seal to the firebox for the stove to work correctly. Inspect the door gasket to make sure it forms an air-tight seal to the firebox.

The door can be lifted off the hinges if extensive repairs are conducted.


High-Temperature anti-sieze may be used on the door hinges to eliminate squeaks.
If the glass is damaged, replace it - see “Replacement Parts” for details.
Use wood stove gasket cement to re-adhere loose gasket.
Severely frayed or thread-bare gasket should be replaced.

The door latch should pull the door against the face of the stove (but not so tight as to not allow full handle rotation). If the latch requires adjustment, follow the directions below.


Side View of Door Handle
Exploded View
Door Cam
Door Handle
Washers
Door Frame
Use a 9/16" socket wrench to remove this nut.
Door Cam Adjustment: To tighten, remove a washer from the inside of the door frame. To loosen, place an additional washers on the inside of the door frame or loosen the nut 1/2 turn.

Creosote - Formation and Need for Removal

When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire. The chimney and chimney connector should be inspected at least once every two months during the heating season to determine if a creosote buildup has occurred. If creosote has accumulated, it should be removed to reduce the risk of a chimney fire.

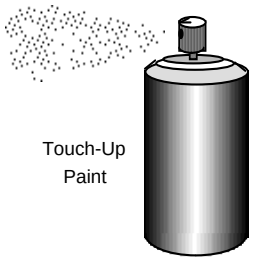
If you are not certain of creosote inspection, contact your dealer or local chimney sweep for a full inspection. Excess creosote buildup may cause a chimney fire, that may result in property damage, injury, or death.

Yearly Maintenance

Make sure the appliance has fully cooled prior to conducting service.

Touch Up Paint

Included with the owner's pack of this appliance is a can of Stove-Brite® paint. To touch up nicks or dulled paint, apply the paint while the appliance is cool. Sand rusted or damaged areas before preparation (use 120 grit sandpaper). Clean and dry the area to prepare the surface. Wait at least one hour before starting the appliance. The touched up area will appear darker than the surrounding paint until it cures from heat. Curing will give off some fumes while curing – open windows to ventilate.

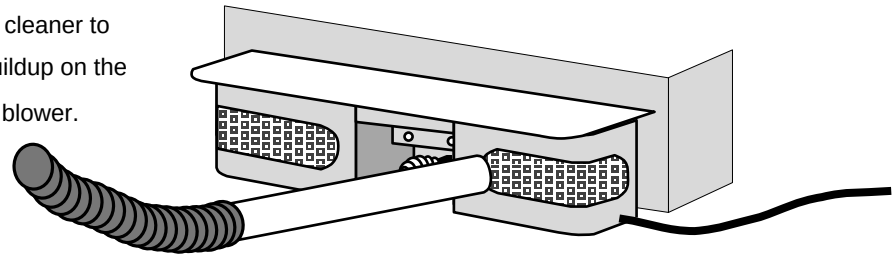


Cleaning the Air Duct and Blower (if applicable)

Use a vacuum to clean the air ducts (channels). This prevents dust from burning and creating odors.

The optional blower should be vacuumed every year to remove any buildup of dust, lint, etc.

Use a vacuum cleaner to remove any buildup on the screens of the blower.



Firebrick and Baffle Inspection

Use the illustration on page 26 as a reference for checking the following items. Make sure the appliance is cool before proceeding.

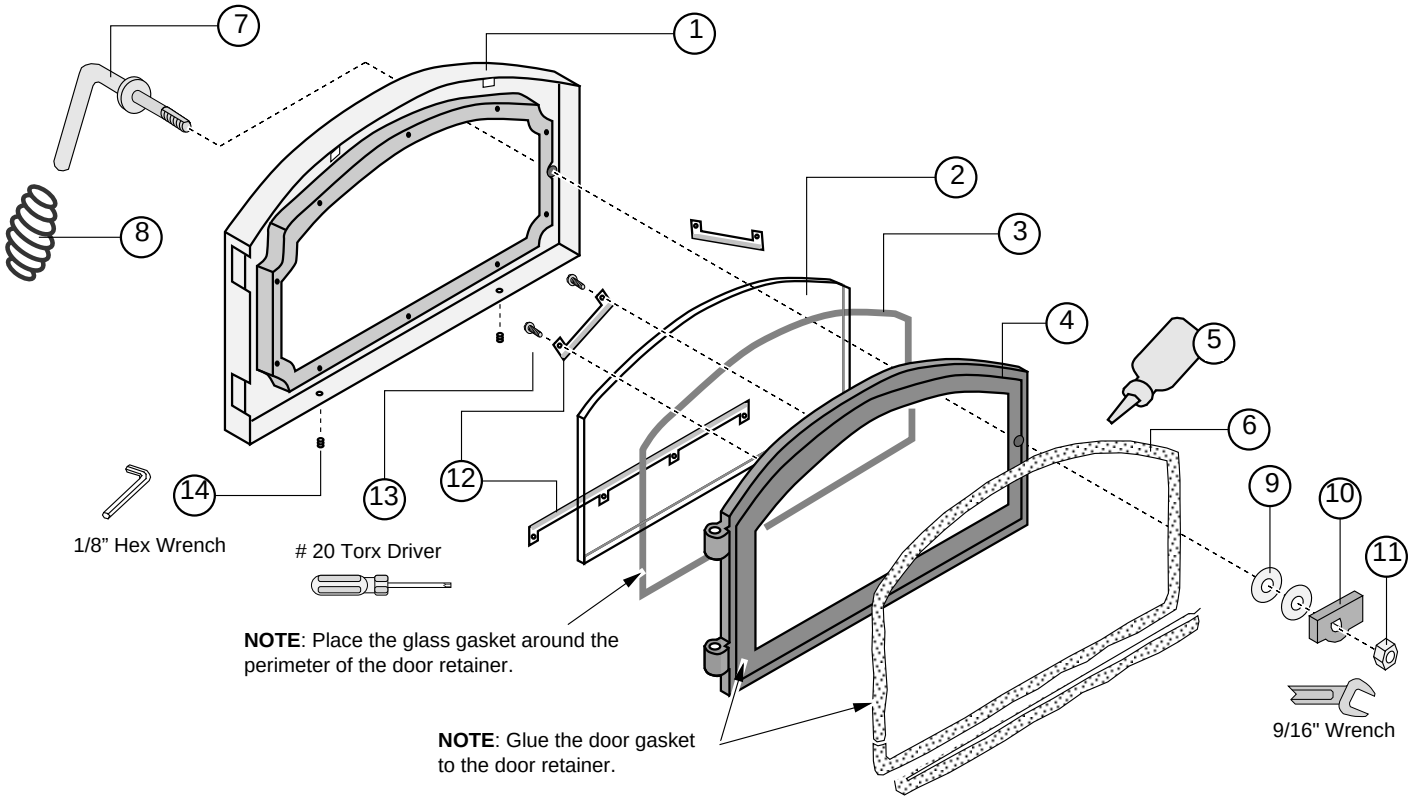
Baffle Firebricks - check the bricks along the ceiling of the firebox to make sure they are intact and have no gaps between them. Slide the bricks to eliminate any gaps.

Baffle Supports - make sure the front and back baffle supports in are place and not degraded. Slight scaling or rusting of the metal is normal.

Secondary Air Tubes - Check the two air tubes and collars to make sure they are intact and not severely deteriorated. Slight scaling or rusting of the metal is normal. Make sure the push pins hold the air tubes in place.

Floor and Wall Firebricks - replace any severely damaged firebrick along the side or floor of the firebox.

Door Parts


1/8" Hex Wrench
20 Torx Driver
NOTE: Place the glass gasket around the perimeter of the door retainer.
NOTE: Glue the door gasket to the door retainer.
9/16" Wrench

ID #	Description	Qty	Part #		ID #	Description	Qty	Part #
1	Door Shell - Black Door Shell - Brass Door Shell - Pewter	1	230-00578 230-00579 230-00577		2	Glass (19-1/4" x 9-7/8")	1	173-01001
3	Glass Gasket	1	99900405		4	Door Retainer (w gasket)	1	224-23029
5	Gasket Cement	1	99900409		6	Door Gasket	1	99900406
7	Door Handle Asbly - Black Door Handle Asbly - Brass Door Handle Asbly - Pewter	1	224-14042 99900410 224-14052		8	Spring - Black Spring - Brass Spring - Pewter	1	100-14122 99300100 100-04103
9	Washers	2	100-03501		10	Cam	1	99900417
11	Nut, Brass	1	101-00007		12	Glass Clips - Top Glass Clip - Bottom	2 1	224-230022 224-230021
13	#8-32 3/8" Type F Screw	8	225-20039		14	Set Screw	2	225-20038

Replacing the Glass

The glass must not contact the door retainer or glass clips directly. The glass gasket and glass clip gaskets insulate the glass to prevent cracking. Do not over-tighten the glass clips.

See "Door Shell Installation" (pg. 30) for details on removing the door handle and shell. NOTE: The glass gasket is placed in the grove along the inside perimeter of the door retainer. Make sure the glass clip screws are all fully tightened - they must be flush with the door retainer for the door shell to install.

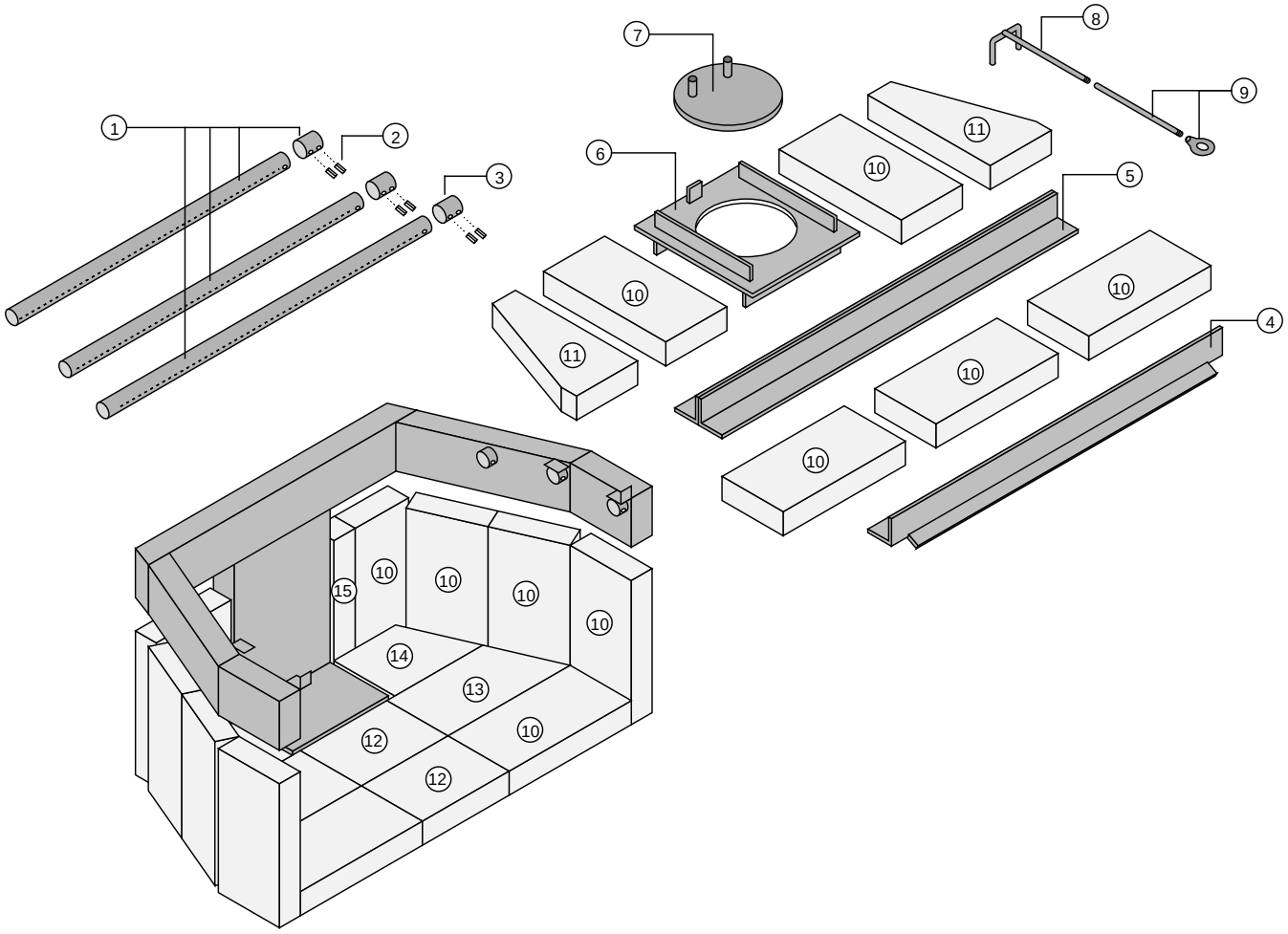
Replacing the Door Gasket

The door gasket inserts into the outer groove of the door retainer. Stove gasket cement holds it in place. Before installing, remove any residual cement. Lay the gasket in place (start at the lower left corner) and cut off any excess gasket (do not stretch the gasket. The cement fully cures with heat from the stove. You may need to open and close the door repeatedly to get the gasket to seat fully.

Replacing the Door Handle

See the illustration above for a component list (see pg. 25 for details on adjusting the door).

Firebox Parts



ID #	Description	Qty	Part #		ID #	Description	Qty	Part #
1	Air Tubes & Sleeve	1	98900234		2	Air Tube Roll Pins	6	98900357
3	Air Tube Retainer Sleeve	3	100-11001		4	Baffle Support, Front "Y"	1	99900277
5	Baffle Support, Rear "T"	1	99900282		6	Damper Plate	1	98900320
7	Damper Slider	1	98900338		8	Damper Yoke	1	98900331
9	Damper Extension Rod with Pull Ring	1	98900334		10	Brick - 9" x 4.5" un-cut	15	175-00001 (1) 98900102 (9)
11	Brick, Cut - 4.5 x 9 w notch	2	251-00024		12	Brick, Cut –4.5 x 6.25	2	251-00011
13	Brick, Cut – 8.9 x 4.5 w notch	2	251-00027		14	Brick, Cut - 6.8 x 4.5 w notch	2	251-00026
15	Brick, Cut – 9 x 1.5	2	251-00025					

Floor and Side Firebrick Removal & Replacement

Do not pry firebrick - they chip and crack easily. Remove the floor firebricks first. The side firebrick are removed later because they are pinned in place by the floor firebrick. Clean the firebox prior to replacing the firebrick.

Baffle Removal & Replacement

1 Lift up on the front portion of the front three firebricks.

2 Lift the front baffle support “Y” and rotate it forward until it can be removed.

3 Slide the center front firebrick forward and out the door opening. Then slide the side front firebricks towards the middle then out in the same manner.

4 Slide the center baffle support forward and out of the firebox.

5 Slide the rear firebrick forward and out of the firebox. NOTE: When the center rear firebrick are slid forward the damper plate will come to rest on the rear secondary air tube and rear air channel.

6 Slide the damper slider all the way forward.

7 Reach into the firebox and push up on the damper yoke until the damper yoke separates from the damper slider. Remove both the damper slider and damper plate by sliding them between the front two secondary air tubes.

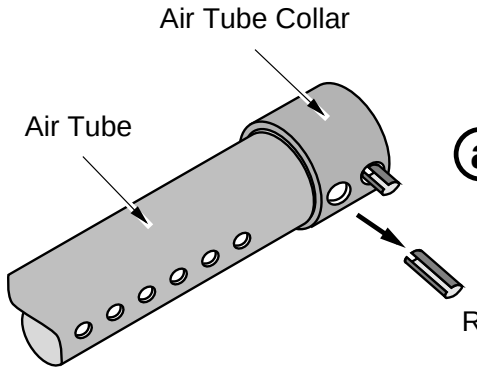
REPLACEMENT INSTRUCTIONS:

1 Place the damper plate above the secondary air tubes in the rear center of the firebox.

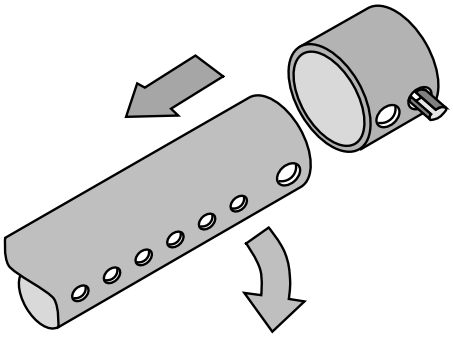
2 Position the damper slider so the damper yoke inserts into the two tubes on the damper slider (make sure to have correct orientation). Then slide the damper slider over the damper plate until both are centered in the firebox.

3 Follow the instructions above in reverse order, starting with step number 5.

Air Tube Removal & Replacement



(a) Remove the left pin on the air tube collar



(b) Slide the air tube to the left, swing it down and remove from the firebox.

28 Warranty

To register your TRAVIS INDUSTRIES, INC. 7 Year Warranty, complete the enclosed warranty card and mail it within **ten (10)** days of the appliance purchase date to: TRAVIS INDUSTRIES, INC., 4800 Harbour Pointe Blvd. SW, Mukilteo, WA 98275. TRAVIS INDUSTRIES, INC. warrants this gas appliance (appliance is defined as the equipment manufactured by Travis Industries, Inc.) to be defect-free in material and workmanship to the original purchaser from the date of purchase as follows:

Check with your dealer in advance for any costs to you when arranging a warranty call.
Mileage or service charges are not covered by this warranty. This charge can vary from store to store.

Years 1 & 2 - COVERAGE: PARTS & LABOR

Firebox Assembly:
Firebox, Baffle Supports, Air Tubes, Air Channels, Convection Chamber

Door Assembly:
Solid Brass or Cast Door, Latch Assembly, Glass Retainers

Plated Finish
Plated Door, Legs, etc… See "Conditions & Exclusions" # 9 below.

Air Control Assembly
Slider Plate, Pressure Plate

Ceramic Glass
Glass (breakage from thermal shock)

Firebrick
Breakage from thermal shock

Accessories
Legs, Pedestal, Panels, Blower

Re-Installation Allowance
In cases where heater must be removed from home for repairs, a partial cost of re-installation is covered (pre-authorization required)

One-Way Freight Allowance
One-way freight allowance on pre-authorized repair done at factory is covered.

Exclusions: Paint, Gasketing

Years 3 Through 5 - COVERAGE: PARTS & LABOR

Firebox Assembly:
Firebox, Baffle Supports, Air Tubes, Air Channels, Convection Chamber

Air Control Assembly
Slider Plate, Pressure Plate

Door Assembly:
Solid Brass or Cast Door, Latch Assembly, Glass Retainers

One-Way Freight Allowance
One-way freight allowance on pre-authorized repair done at factory is covered.

Exclusions: Paint, Gasketing, Plated Finish, Accessories (Legs, Pedestal, Panels, Blower), Glass, Firebrick, Re-Installation Allowance

Years 6 & 7 - COVERAGE: PARTS ONLY

Firebox Assembly:
Firebox, Baffle Supports, Air Tubes, Air Channels, Convection Chamber

Door Assembly:
Solid Brass or Cast Door, Latch Assembly, Glass Retainers

Air Control Assembly
Slider Plate, Pressure Plate

Exclusions: Paint, Gasketing, Plated Finish, Accessories (Legs, Pedestal, Panels, Blower), Glass, Firebrick, Re-Installation Allowance, One-Way Freight Allowance, Labor

CONDITIONS & EXCLUSIONS

1. This new appliance must be installed by a qualified installer. It must be installed, operated, and maintained at all times in accordance with the instructions in the Owner's Manual. Any alteration, willful abuse, accident, neglect, or misuse of the product shall nullify this warranty.
2. This warranty is nontransferable, and is made to the ORIGINAL purchaser, provided that the purchase was made through an authorized Travis dealer.
3. Discoloration and some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, not covered under warranty. Over-firing (operation where the steel may glow red) of this appliance can cause serious damage and will nullify this warranty.
4. The warranty, as outlined within this document, does not apply to the chimney components or other Non-Travis accessories used in conjunction with the installation of this product. If in doubt as to the extent of this warranty, contact your authorized Travis retailer before installation.
5. Travis Industries will not be responsible for inadequate performance caused by environmental conditions such as nearby trees, buildings, roof tops, wind, hills or mountains or negative pressure or other influences from mechanical systems such as furnaces, fans, clothes dryers, etc.
6. This Warranty is void if:
   a. The unit has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals.
   b. The unit is subject to submersion in water or prolonged periods of dampness or condensation.
   c. Any damage to the unit, combustion chamber, heat exchanger or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
7. Exclusions to this 7 Year Warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, damage incurred while the appliance is in transit, alteration, or act of God.
8. This 7 Year warranty excludes damage caused by normal wear and tear, such as paint discoloration or chipping, worn or torn gasketing, chipped or cracked firebrick, etc. Also excluded is damage to the unit caused by abuse, improper installation, modification of the unit, or the use of fuel other than that for which the unit is configured (use cord wood only).
9. Damage to brass or plated surfaces caused by fingerprints, scratches, melted items, or other external sources left on the surfaces from the use of abrasive cleaners is not covered in this warranty. Damage to the surfaces from over-firing (operation where the steel may glow red) is not covered in this warranty.
10. TRAVIS INDUSTRIES, INC. is free of liability for any damages caused by the appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply.
11. This warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the Travis appliance without the express written permission of TRAVIS INDUSTRIES, INC. and bearing a TRAVIS INDUSTRIES, INC. label of approval.
12. Any statement or representation of Travis products and their performance contained in Travis advertising, packaging literature, or printed material is not part of this 7 year warranty.
13. This warranty is automatically voided if the appliance's serial number has been removed or altered in any way. If the appliance is used for commercial purposes, it is excluded from this warranty.
14. No dealer, distributor, or similar person has the authority to represent or warrant Travis products beyond the terms contained within this warranty. TRAVIS INDUSTRIES, INC. assumes no liability for such warranties or representations.
15. Travis Industries will not cover the cost of the removal or re-installation of hearths, facing, mantels, venting or other components.
16. If for any reason any section of this warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
17. This 7 year warranty is the only warranty supplied by Travis Industries, Inc., the manufacturer of the appliance. All other warranties, whether express or implied, are hereby expressly disclaimed and purchaser's recourse is expressly limited to the warranties set forth herein.

IF WARRANTY SERVICE IS NEEDED:

1. If you discover a problem that you believe is covered by this warranty, you MUST REPORT it to your Travis dealer WITHIN 30 DAYS, giving them proof of purchase, the purchase date, and the model name and serial number.
2. Travis Industries has the option of either repairing or replacing the defective component.
3. If your dealer is unable to repair your appliance's defect, he may process a warranty claim through TRAVIS INDUSTRIES, INC., including the name of the dealership where you purchased the appliance, a copy of your receipt showing the date of the appliance's purchase, and the serial number on your appliance. At that time, you may be asked to ship your appliance, freight charges prepaid, to TRAVIS INDUSTRIES, INC. TRAVIS INDUSTRIES, INC., at its option, will repair or replace, free of charge, your appliance if it is found to be defective in material or workmanship within the time frame stated within this 7 year warranty. TRAVIS INDUSTRIES, INC. will return your appliance, freight charges (years 1 to 5) prepaid by TRAVIS INDUSTRIES, INC., to your regional distributor, or dealership.
4. Check with your dealer in advance for any costs to you when arranging a warranty call. Mileage or service charges are not covered by this warranty. This charge can vary from store to store.

Listing Label

DO NOT REMOVE THIS LABEL
Listed Solid Fuel Burning Appliance
Suitable for use in masonry fireplaces.

LOPI ENERGY SYSTEMS

MODEL: FREEDOM (FLEX)
Tested to: UL-1482/UL-907
Report No. 6009 (March 1990)

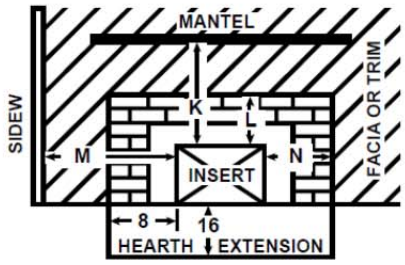
SERIAL NUMBER [redacted]

PREVENT HOUSE FIRES - Install and use only in accordance with the manufacturer's installation and operating instructions. Contact your local building or fire officials about restrictions and installation inspection in your area. Refer to local building codes and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling. Do not run a chimney connector through a combustible wall or ceiling. Do not connect this unit to a chimney flue serving another appliance. Clearances may be reduced by methods specified in NFPA 211, listed wall shields, pipe shields, or other means approved by local building or fire officials.

Minimum Clearances to Combustible Materials Fireplace Insert Installation	Freedom
K. Mantle	32.0 in.
with Mantle Shield	19.0 in.
L. Top Facing	30.0 in.
with Shield	17.0 in.
M. Adjacent Sidewall	15.0 in.
N. Side Facing	13.5 in.

ALL

Insert Clearance Diagram



Front 16.0 in.
Sides 8.0 in.

COMPONENTS REQUIRED FOR MASONRY FIREPLACE INSTALLATION:
Surround Panels.

Direct flue connection is optional. Do not remove bricks or mortar from masonry fireplace.

Note: Replace glass with 5mm neoceramic or ceramic glass only.

For use with solid wood fuels only. Operate only with feed door closed - open to feed fire only. Do not use a grate or elevate fire - build fire directly on the hearth.

Manufactured By:
Travis Industries, Inc.
4800 Harbour Pointe Blvd. SW Mukilteo, W

U.S. ENVIRONMENTAL PROTECTION AGENCY
Certified to comply with July 1990 particulate emission standards.

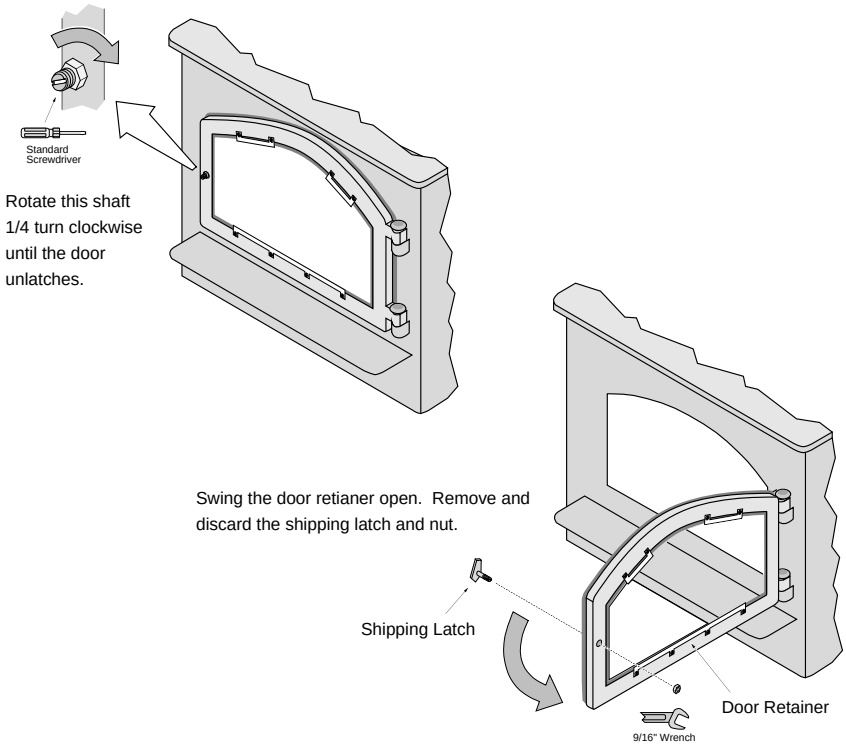
Date of Manufacture

2004 2005 2006 Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

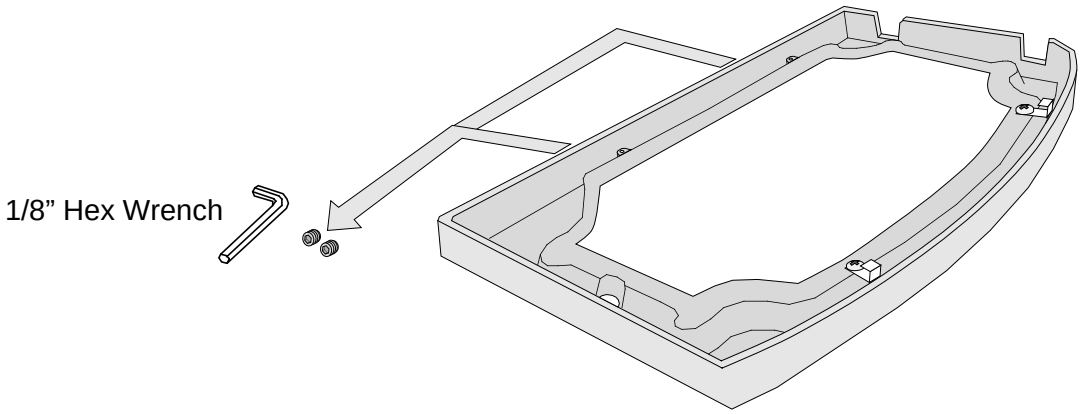
DO NOT REMOVE THIS LABEL Made in U.S.A. 0225 (IGN)

Door Shell Installation

1. Remove the door retainer shipping latch following the directions below.


Standard Screwdriver
Rotate this shaft 1/4 turn clockwise until the door unlatches.
Swing the door retianer open. Remove and discard the shipping latch and nut.
Shipping Latch
Door Retainer
9/16" Wrench

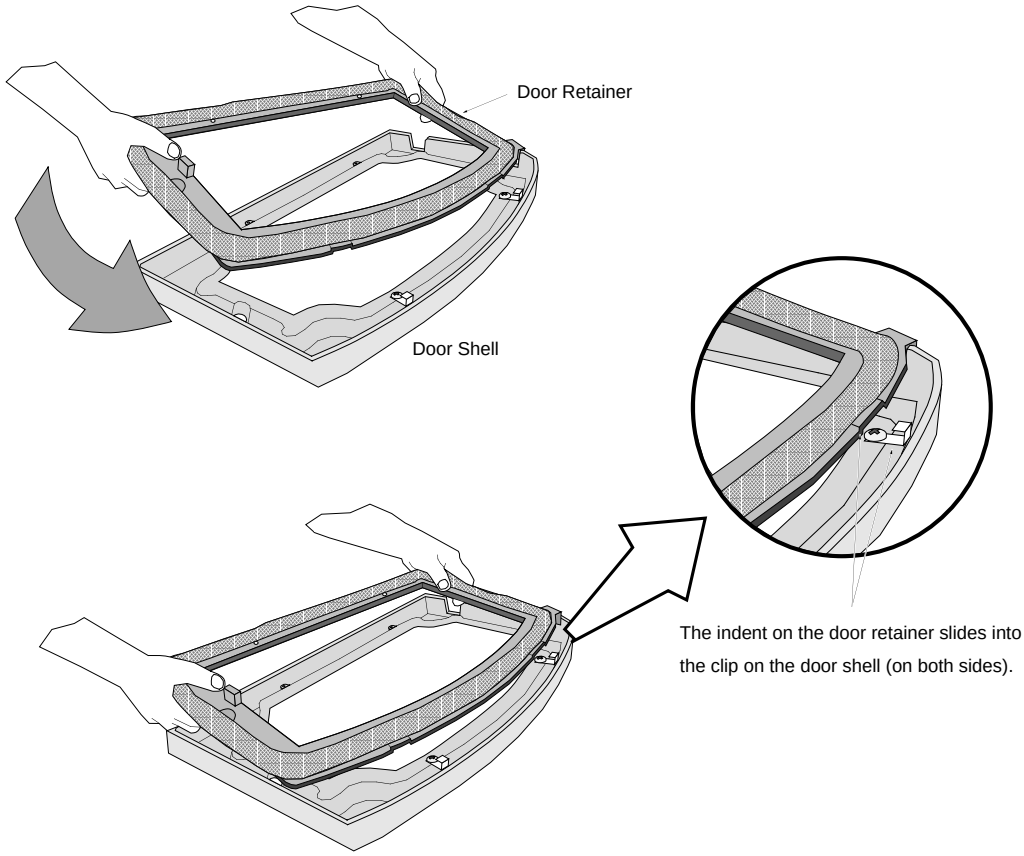
2. Place the door shell face down on a non-scratching surface.
3. Remove and discard the two set screws pre-installed on the bottom of the door shell (if applicable).



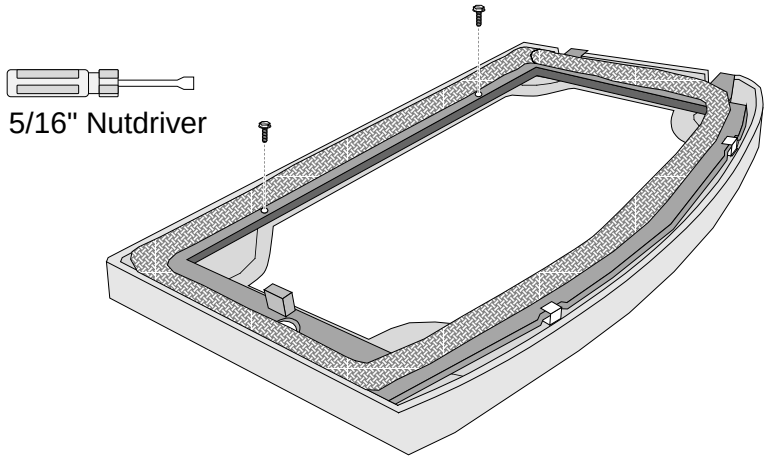
Nickel (Cast Iron) Doors Only

Use a socket-head wrench with 5/16” socket to pre-thread the holes 6 revolutions. If you pre-thread move revolutions, it may bottom out and break the head off the screw. Remove and retain the screws. See the photos below.

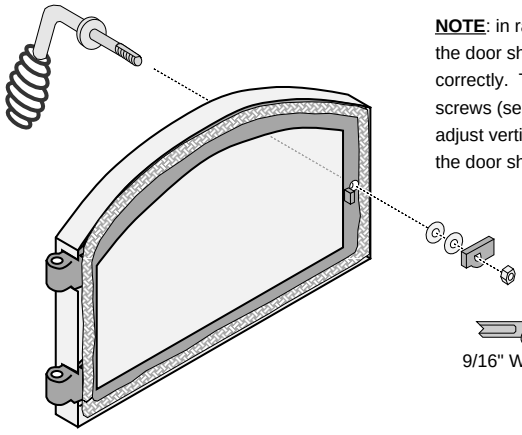
4. Place the door retainer into the door shell as shown below.



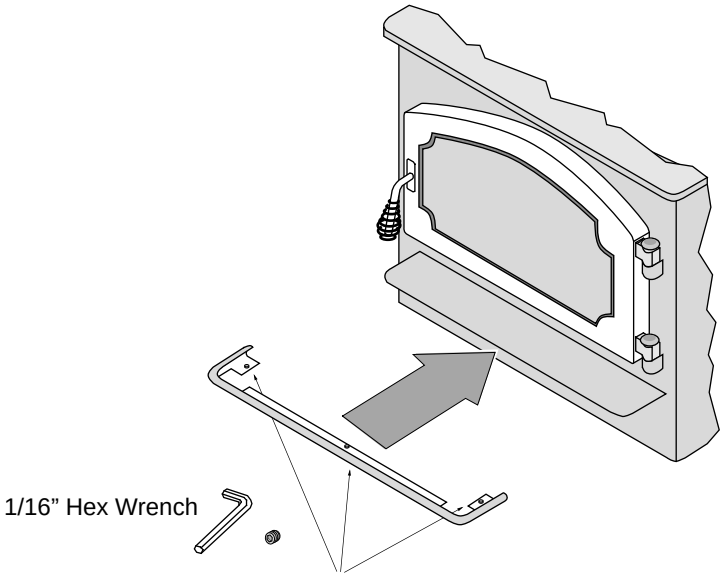
Make sure the holes in the retainer line up with the holes on the shell then use a 5/16” nutdriver to secure the shell with the two screws. Tighten until the door shell is snug against the retainer (do not over-tighten).



5. Attach the door handle following the directions to the right.
6. Replace the door on the hinges and latch the door.
7. Attach the ashlip trim following the directions below.



NOTE: in rare cases the door retainer may not line up with the door shell, preventing the door handle from lining up correctly. To adjust the position horizontally, loosen the set screws (see step 3) and adjust the door retainer position. To adjust vertically, remove the retainer and adjust the clips on the door shell (see step 2).

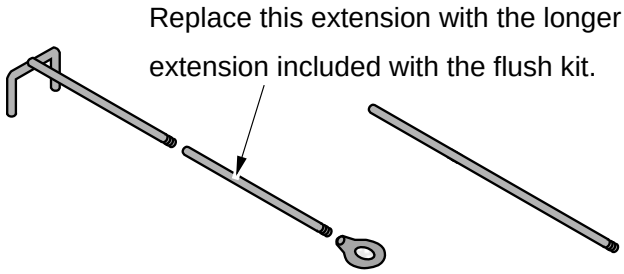


Slide the ashlip trim into place then tighten the three set screws on the bottom of the ashlip to secure.

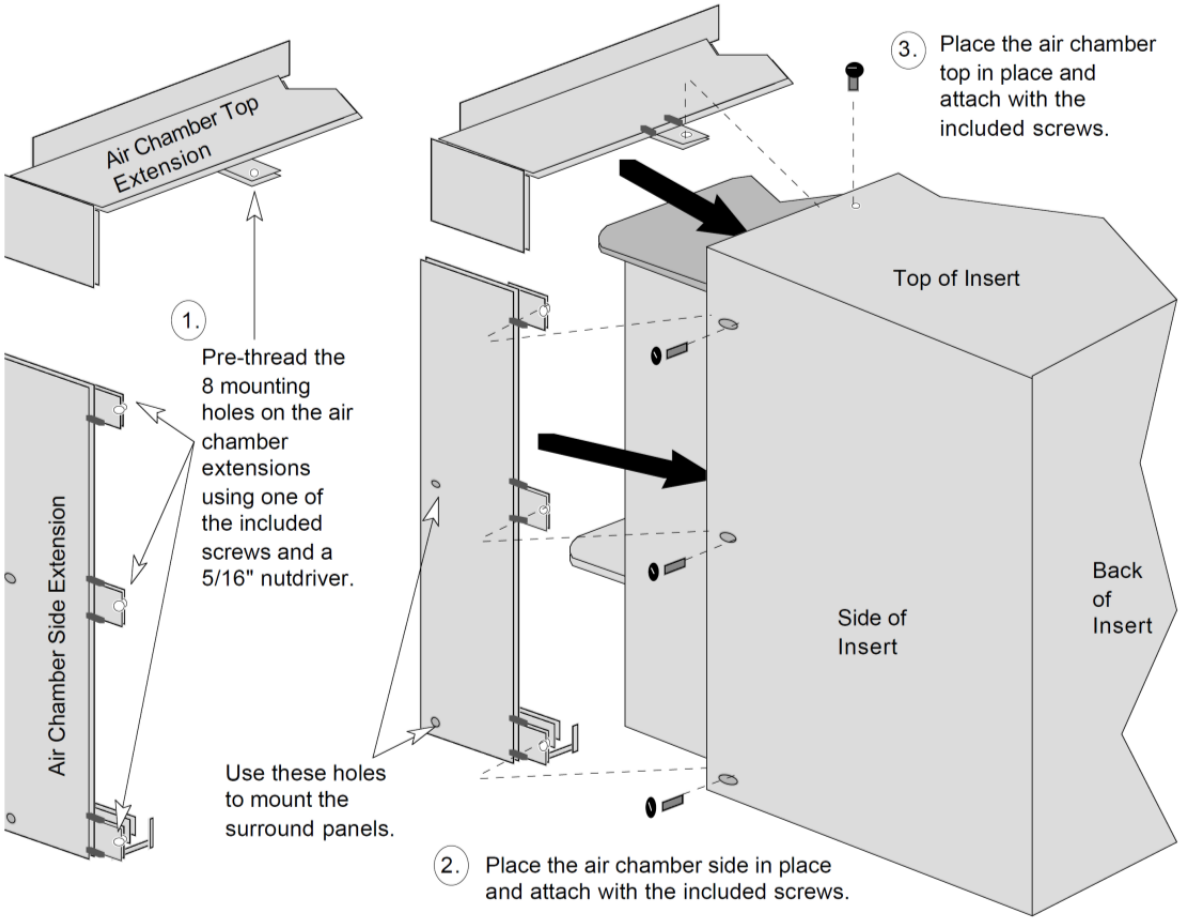
Flush Kit

This kit allows the Freedom insert to be installed with more of the unit inside the fireplace (flush) rather than extended onto the hearth. The flush kit must be installed prior to installing the surround panels or placing the insert. Place the insert 24" (610mm) onto the hearth before following the instructions below.

1. Remove the damper extension rod and pull ring from the insert. Remove the pull ring from the extension rod and attach it to the longer extension included with the flush kit (the stock damper extension rod may be discarded). Install the extension rod back onto the fireplace insert.



2. Pre-thread the 8 mounting holes on air chamber top & side extensions (see illustration below).
3. Place the air chamber side extension in place and attach with the included screws.
4. Place the air chamber top in place and attach with the included screws.
5. The surround panels attach to the air chamber side extensions in the same manner they attach to the insert.


Air Chamber Top Extension
1.
Pre-thread the 8 mounting holes on the air chamber extensions using one of the included screws and a 5/16" nutdriver.
Air Chamber Side Extension
3.
Place the air chamber top in place and attach with the included screws.
Top of Insert
Side of Insert
Back of Insert
Use these holes to mount the surround panels.
2.
Place the air chamber side in place and attach with the included screws.

Surround Panels

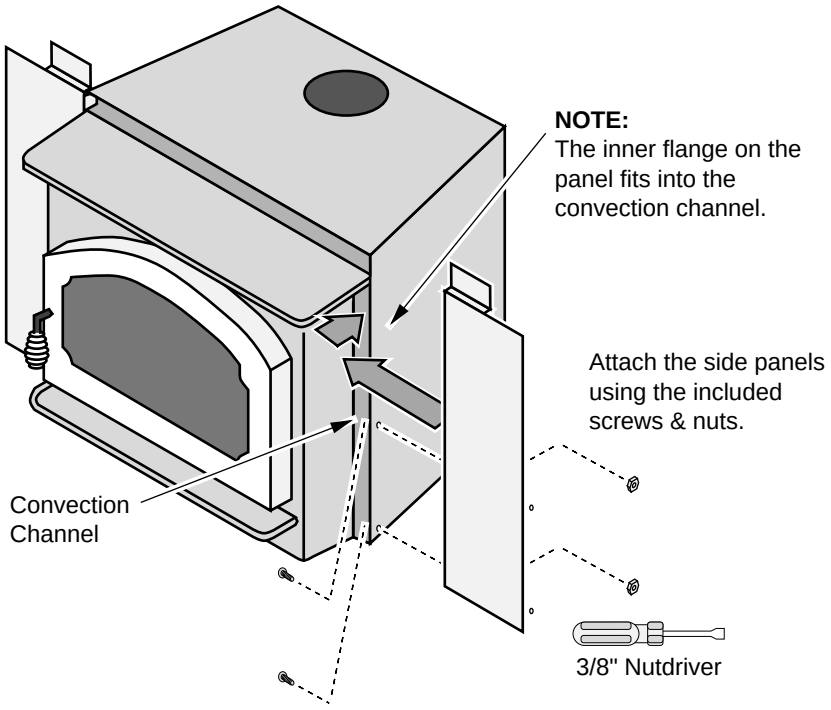
SURROUND PANEL SIZE	HEIGHT	WIDTH	PART #
8"	29-1/2"	45-3/8 "	99300293
10"	31-1/2"	49-3/8 "	99300294
12"	33-1/2"	53-3/8 "	99300295

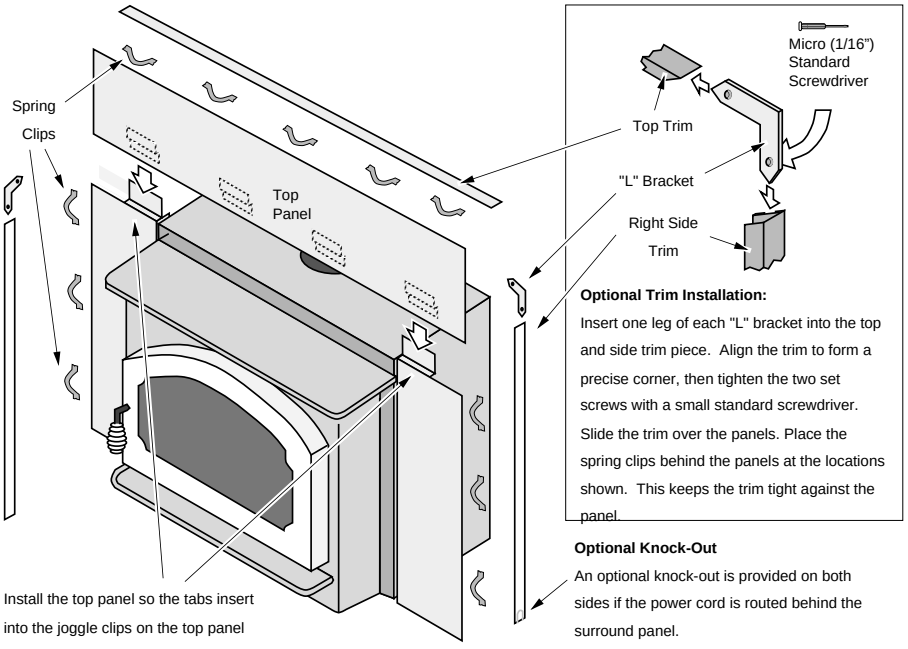
Installation Instructions

1. With the insert 12” (610mm) from the fireplace, install the side surround panels (see the directions to the right).

2. Adjust the position of the side panels so they are: 1) flush with the bottom of the insert; 2) both the same distance back from the front of the insert; 3) perpendicular to the floor (use the top panel, if necessary, to judge alignment). Tighten the screws that hold the side panels in place.

3. Place the insert into the fireplace and connect the flue. Install the top panel and trim following the directions to the right.

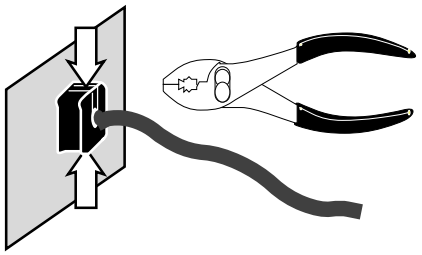

NOTE:
The inner flange on the panel fits into the convection channel.
Attach the side panels using the included screws & nuts.
Convection Channel
3/8" Nutdriver


Spring Clips
Top Panel
Install the top panel so the tabs insert into the joggle clips on the top panel
Micro (1/16") Standard Screwdriver
Top Trim
"L" Bracket
Right Side Trim
Optional Trim Installation:
Insert one leg of each "L" bracket into the top and side trim piece. Align the trim to form a precise corner, then tighten the two set screws with a small standard screwdriver. Slide the trim over the panels. Place the spring clips behind the panels at the locations shown. This keeps the trim tight against the panel.
Optional Knock-Out
An optional knock-out is provided on both sides if the power cord is routed behind the surround panel.

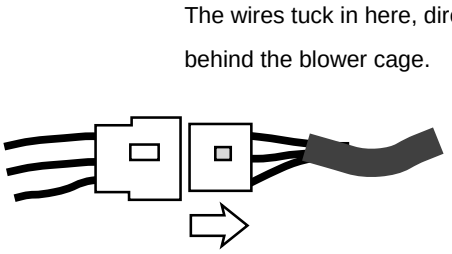
Front Blower (part # 99000133)

To Switch The Power Cord To The Left Side:

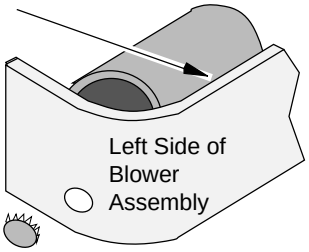
Use a pair of pliers to disconnect the strain relief which holds the power cord in place. With the power cord slackened, the molex connectors that attach the power cord to the blower assembly may be disconnected. Pry the button plug from the left side of the blower assembly and insert it into the hole on the right side. Pull the left side molex connector out from behind the deflection plate and cut the nylon tie that holds the wire back. Insert the molex connector on the power cord through the hole on the left side of the blower assembly and attach it to the left side molex connector. Route the wire directly behind the blower cage. Place the strain relief over the power cord (it should be in the same location on the power cord that it was before – approximately 2" (51mm) from where the wires split). Insert the strain relief into the hole on the left side until the strain relief locks in place. Make sure the power cord, wires, or molex assembly do not protrude into the opening of the blower.



Remove the strain relief by squeezing it from the top and bottom with a pair of slip-joint pliers.



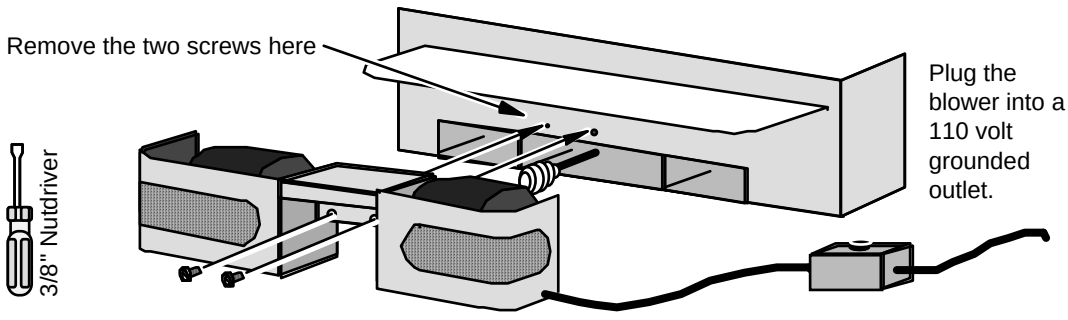
Disconnect the molex plug inside the blower assembly. Remove the power cord by pulling it out of the hole exposed by removing the strain relief.



Remove the button plug from the left side and insert it into the hole on the right side.

Installation Instructions

1. Remove the two screws above the air control and beneath the ashlip. Place the blower assembly underneath the ashlip and replace removed the two screws. Before tightening the screws with a 3/8" nutdriver, lift the blower up so it tucks underneath the ashlip.



Use a 3/8" nutdriver to replace the two screws and hold the front blower to the appliance.

2. Plug the power cord running from the control box into a grounded 110 volt electrical outlet.

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